



Consolidated Financial Statements

For the year ended December 31, 2021

CONSOLIDATED STATEMENTS OF EARNINGS

(in Canadian \$ millions except per share amounts)

	For the years ended December 31	
	2021	2020
Income		
Premium income		
Gross premiums written	\$ 57,397	\$ 47,754
Ceded premiums	(4,584)	(4,735)
Total net premiums	52,813	43,019
Net investment income (note 6)		
Regular net investment income	6,393	5,963
Changes in fair value through profit or loss	(2,083)	5,699
Total net investment income	4,310	11,662
Fee and other income	7,294	5,902
	64,417	60,583
Benefits and expenses		
Policyholder benefits		
Gross	49,355	39,605
Ceded	(3,544)	(2,946)
Total net policyholder benefits	45,811	36,659
Changes in insurance and investment contract liabilities		
Gross	1,152	12,079
Ceded	1,891	(1,751)
Total net changes in insurance and investment contract liabilities	3,043	10,328
Policyholder dividends and experience refunds	1,441	1,500
Total paid or credited to policyholders	50,295	48,487
Commissions	2,664	2,396
Operating and administrative expenses (note 27)	6,337	5,492
Premium taxes	500	480
Financing charges (note 16)	328	284
Amortization of finite life intangible assets (note 10)	336	238
Restructuring and integration expenses (note 4)	90	134
Earnings before income taxes	3,867	3,072
Income taxes (note 26)	304	(82)
Net earnings before non-controlling interests	3,563	3,154
Attributable to non-controlling interests (note 18)	301	78
Net earnings	3,262	3,076
Preferred share dividends (note 20)	134	133
Net earnings - common shareholders	\$ 3,128	\$ 2,943
Earnings per common share (note 20)		
Basic	\$ 3.365	\$ 3.173
Diluted	\$ 3.360	\$ 3.172

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in Canadian \$ millions)

	For the years ended December 31	
	2021	2020
Net earnings	\$ 3,262	\$ 3,076
Other comprehensive income (loss)		
Items that may be reclassified subsequently to Consolidated Statements of Earnings		
Unrealized foreign exchange gains (losses) on translation of foreign operations	(391)	105
Income tax (expense) benefit	—	(2)
Unrealized gains (losses) on hedges of the net investment in foreign operations	117	(90)
Income tax (expense) benefit	(12)	12
Unrealized gains (losses) on available-for-sale assets	(131)	287
Income tax (expense) benefit	35	(49)
Realized (gains) losses on available-for-sale assets	(28)	(141)
Income tax expense (benefit)	3	15
Unrealized gains (losses) on cash flow hedges	60	36
Income tax (expense) benefit	(16)	(10)
Realized (gains) losses on cash flow hedges	(48)	(21)
Income tax expense (benefit)	13	6
Non-controlling interests	107	(69)
Income tax (expense) benefit	(30)	21
Total items that may be reclassified	(321)	100
Items that will not be reclassified to Consolidated Statements of Earnings		
Re-measurements on defined benefit pension and other post-employment benefit plans (note 23)	705	(169)
Income tax (expense) benefit	(190)	40
Revaluation surplus on transfer to investment properties (note 9)	—	11
Income tax (expense) benefit	—	(1)
Non-controlling interests	(67)	15
Income tax (expense) benefit	18	(4)
Total items that will not be reclassified	466	(108)
Total other comprehensive income (loss)	145	(8)
Comprehensive income	\$ 3,407	\$ 3,068

CONSOLIDATED BALANCE SHEETS

(in Canadian \$ millions)

	December 31	
	2021	2020
Assets		
Cash and cash equivalents (note 5)	\$ 6,075	\$ 7,946
Bonds (note 6)	140,612	137,592
Mortgage loans (note 6)	28,852	27,803
Stocks (note 6)	14,183	11,000
Investment properties (note 6)	7,763	6,270
Loans to policyholders	8,319	8,387
	205,804	198,998
Funds held by ceding insurers (note 7)	17,194	18,383
Reinsurance assets (note 13)	21,138	22,121
Goodwill (note 10)	9,081	10,106
Intangible assets (note 10)	5,514	4,285
Derivative financial instruments (note 28)	967	829
Owner occupied properties (note 11)	736	741
Fixed assets (note 11)	422	426
Other assets (note 12)	4,522	3,347
Premiums in course of collection, accounts and interest receivable	6,366	6,102
Current income taxes	268	145
Deferred tax assets (note 26)	1,057	975
Investments on account of segregated fund policyholders (note 14)	357,419	334,032
Total assets	\$ 630,488	\$ 600,490
Liabilities		
Insurance contract liabilities (note 13)	\$ 208,378	\$ 208,902
Investment contract liabilities (note 13)	12,455	9,145
Debentures and other debt instruments (note 15)	8,804	9,693
Funds held under reinsurance contracts	1,542	1,648
Derivative financial instruments (note 28)	1,030	1,221
Accounts payable	3,032	2,698
Other liabilities (note 17)	6,063	5,147
Current income taxes	193	343
Deferred tax liabilities (note 26)	1,089	646
Investment and insurance contracts on account of segregated fund policyholders (note 14)	357,419	334,032
Total liabilities	600,005	573,475
Equity		
Non-controlling interests (note 18)		
Participating account surplus in subsidiaries	3,138	2,871
Non-controlling interests in subsidiaries	129	116
Shareholders' equity		
Share capital (note 19)		
Limited recourse capital notes	1,500	—
Preferred shares	2,720	2,714
Common shares	5,748	5,651
Accumulated surplus	16,424	14,990
Accumulated other comprehensive income (note 24)	632	487
Contributed surplus	192	186
Total equity	30,483	27,015
Total liabilities and equity	\$ 630,488	\$ 600,490

Approved by the Board of Directors:



Jeffrey Orr
Chair of the Board



Paul Mahon
President and Chief Executive Officer

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in Canadian \$ millions)

	December 31, 2021					
	Share capital	Contributed surplus	Accumulated surplus	Accumulated other comprehensive income	Non-controlling interests	Total equity
Balance, beginning of year	\$ 8,365	\$ 186	\$ 14,990	\$ 487	\$ 2,987	\$ 27,015
Net earnings	—	—	3,262	—	301	3,563
Other comprehensive income (loss)	—	—	—	145	(28)	117
	8,365	186	18,252	632	3,260	30,695
Dividends to shareholders						
Preferred shareholders (note 20)	—	—	(134)	—	—	(134)
Common shareholders	—	—	(1,677)	—	—	(1,677)
Shares exercised and issued under share-based payment plans (note 19)	97	(59)	—	—	46	84
Share-based payment plans expense	—	63	—	—	—	63
Equity settlement of Putnam share-based plans	—	—	—	—	(38)	(38)
Shares cancelled under Putnam share-based plans	—	2	—	—	(2)	—
Issuance of limited recourse capital notes (note 19)	1,500	—	—	—	—	1,500
Limited recourse capital notes issue costs (note 19)	—	—	(13)	—	—	(13)
Issuance of preferred shares (note 19)	200	—	—	—	—	200
Redemption of preferred shares (note 19)	(194)	—	—	—	—	(194)
Share issue costs (note 19)	—	—	(3)	—	—	(3)
Dilution loss on non-controlling interests	—	—	(1)	—	1	—
Balance, end of year	\$ 9,968	\$ 192	\$ 16,424	\$ 632	\$ 3,267	\$ 30,483

	December 31, 2020					
	Share capital	Contributed surplus	Accumulated surplus	Accumulated other comprehensive income	Non-controlling interests	Total equity
Balance, beginning of year	\$ 8,347	\$ 175	\$ 13,660	\$ 495	\$ 2,866	\$ 25,543
Net earnings	—	—	3,076	—	78	3,154
Other comprehensive income (loss)	—	—	—	(8)	37	29
	8,347	175	16,736	487	2,981	28,726
Dividends to shareholders						
Preferred shareholders (note 20)	—	—	(133)	—	—	(133)
Common shareholders	—	—	(1,626)	—	—	(1,626)
Shares exercised and issued under share-based payment plans (note 19)	18	(50)	—	—	49	17
Share-based payment plans expense	—	54	—	—	—	54
Equity settlement of Putnam share-based plans	—	—	—	—	(15)	(15)
Shares cancelled under Putnam share-based plans	—	7	—	—	(15)	(8)
Dilution gain on non-controlling interests	—	—	13	—	(13)	—
Balance, end of year	\$ 8,365	\$ 186	\$ 14,990	\$ 487	\$ 2,987	\$ 27,015

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in Canadian \$ millions)

	For the years	
	2021	2020
Operations		
Earnings before income taxes	\$ 3,867	\$ 3,072
Income taxes paid, net of refunds received	(351)	(367)
Adjustments:		
Change in insurance and investment contract liabilities	1,819	14,476
Change in funds held by ceding insurers	845	467
Change in funds held under reinsurance contracts	(84)	201
Change in reinsurance assets	1,915	(1,629)
Changes in fair value through profit or loss	2,083	(5,699)
Other	279	(911)
	10,373	9,610
Financing Activities		
Issue of common shares (note 19)	97	18
Issue of preferred shares (note 19)	200	—
Redemption of preferred shares (note 19)	(194)	—
Issue of limited recourse capital notes (note 19)	1,500	—
Limited recourse capital notes issue costs (note 19)	(13)	—
Issue of debentures and senior notes (note 15)	—	3,713
Repayment of debentures	—	(500)
Increase (decrease) in line of credit of subsidiaries	(764)	539
Decrease in debentures and other debt instruments	(4)	(1)
Share issue costs (note 19)	(3)	—
Dividends paid on common shares	(1,677)	(1,626)
Dividends paid on preferred shares (note 20)	(134)	(133)
	(992)	2,010
Investment Activities		
Bond sales and maturities	27,288	22,650
Mortgage loan repayments	3,276	2,339
Stock sales	6,286	3,859
Investment property sales	40	73
Change in loans to policyholders	64	84
Business acquisitions, net of cash and cash equivalents acquired (note 3)	(380)	(1,403)
Sale of businesses, net of cash and cash equivalents in subsidiaries	—	281
Investment in bonds	(35,169)	(27,942)
Investment in mortgage loans	(4,574)	(3,377)
Investment in stocks	(7,073)	(4,285)
Investment in investment properties	(970)	(481)
	(11,212)	(8,202)
Effect of changes in exchange rates on cash and cash equivalents	(40)	(100)
Increase (decrease) in cash and cash equivalents	(1,871)	3,318
Cash and cash equivalents, beginning of year	7,946	4,628
Cash and cash equivalents, end of year	\$ 6,075	\$ 7,946
Supplementary cash flow information		
Interest income received	\$ 4,965	\$ 4,589
Interest paid	348	286
Dividend income received	382	333

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(in Canadian \$ millions except per share amounts)

1. Corporate Information

Great-West Lifeco Inc. (Lifeco or the Company) is a publicly listed company (Toronto Stock Exchange: GWO), incorporated and domiciled in Canada. The registered address of the Company is 100 Osborne Street North, Winnipeg, Manitoba, Canada, R3C 1V3. Lifeco is a member of the Power Corporation of Canada (Power Corporation) group of companies and is a subsidiary of Power Corporation.

Lifeco is a financial services holding company with interests in the life insurance, health insurance, retirement savings, investment management and reinsurance businesses, primarily in Canada, the United States and Europe through its operating subsidiaries including The Canada Life Assurance Company (Canada Life), Great-West Life & Annuity Insurance Company (GWL&A) and Putnam Investments, LLC (Putnam).

The consolidated financial statements (financial statements) of the Company as at and for the year ended December 31, 2021 were approved by the Board of Directors on February 9, 2022.

2. Basis of Presentation and Summary of Accounting Policies

The consolidated financial statements of the Company have been prepared in compliance with International Financial Reporting Standards (IFRS), as issued by the International Accounting Standards Board (IASB). Consistent accounting policies were applied in the preparation of the consolidated financial statements of the subsidiaries of the Company.

Changes in Accounting Policies

The Company adopted the *Interest Rate Benchmark Reform – Phase 2* amendments to IFRS for IAS 39, *Financial Instruments: Recognition and Measurement*, IFRS 7, *Financial Instruments: Disclosures*, IFRS 4, *Insurance Contracts* and IFRS 16, *Leases*, effective January 1, 2021. The adoption of these amendments did not have a significant impact on the Company's consolidated financial statements.

Basis of Consolidation

The consolidated financial statements of the Company were prepared as at and for the year ended December 31, 2021 with comparative information as at and for the year ended December 31, 2020. Subsidiaries are fully consolidated from the date of acquisition, being the date on which the Company obtains control, and continue to be consolidated until the date that such control ceases. The Company has control when it has the power to direct the relevant activities, has significant exposure to variable returns from these activities and has the ability to use its power to affect the variable returns. All intercompany balances and transactions, including income and expenses, profits or losses and dividends, are eliminated on consolidation.

Impact of COVID-19 on Significant Judgments, Estimates and Assumptions

The COVID-19 pandemic has continued to result in uncertainty in global financial markets and the economic environment in which the Company operates. The duration and impact of the COVID-19 pandemic continues to be unknown at this time, as is the efficacy of the associated fiscal and monetary interventions by governments and central banks.

The results of the Company reflect management's judgments regarding the impact of prevailing market conditions related to global credit, equities, investment properties and foreign exchange, as well as prevailing health and mortality experience.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

The provision for future credit losses within the Company's insurance contract liabilities relies upon investment credit ratings. In addition to its own credit assessments, the Company's practice is to use third party independent credit ratings where available. Management judgment is required when setting credit ratings for instruments that do not have a third party credit rating. Given rapid market changes, third party credit rating changes may lag developments in the current environment.

The fair value of portfolio investments (note 6), the valuation of goodwill and other intangible assets (note 10), the valuation of insurance contract liabilities (note 13) and the recoverability of deferred tax asset carrying values (note 26) reflect management's judgment.

Given the uncertainty surrounding the current environment, the actual financial results could differ from the estimates made in preparation of these financial statements.

Use of Significant Judgments, Estimates and Assumptions

In preparation of these consolidated financial statements, management is required to make significant judgments, estimates and assumptions that affect the reported amounts of assets, liabilities, net earnings and related disclosures. Although some uncertainty is inherent in these judgments and estimates, management believes that the amounts recorded are reasonable. Key sources of estimation uncertainty and areas where significant judgments have been made are listed below and discussed throughout the notes to these consolidated financial statements including:

- Management uses judgment to determine the fair value of assets acquired and liabilities assumed in a business combination.
- Management uses independent qualified appraisal services to determine the fair value of investment properties, which utilize judgments and estimates. These appraisals are adjusted by applying management judgments and estimates for material changes in property cash flows, capital expenditures or general market conditions (note 6).
- Management uses internal valuation models which utilize judgments and estimates to determine the fair value of equity release mortgages. These valuations are adjusted by applying management judgments and estimates for material changes in projected asset cash flows, and discount rates (note 6).
- In the determination of the fair value of financial instruments, the Company's management exercises judgment in the determination of fair value inputs, particularly those items categorized within level 3 of the fair value hierarchy (note 9).
- Cash generating units for indefinite life intangible assets and cash generating unit groupings for goodwill have been determined by management as the lowest level that the assets are monitored for internal reporting purposes, which requires management judgment in the determination of the lowest level of monitoring (note 10).
- Management evaluates the future benefit for initial recognition and measurement of goodwill and intangible assets as well as testing the recoverable amounts. The determination of the carrying value and recoverable amounts of the cash generating unit groupings for goodwill and cash generating units for intangible assets relies upon the determination of fair value or value-in-use using valuation methodologies (note 10).
- Judgments are used by management in determining whether deferred acquisition costs and deferred income reserves can be recognized on the Consolidated Balance Sheets. Deferred acquisition costs are recognized if management determines the costs meet the definition of an asset and are incremental and related to the issuance of the investment contract. Deferred income reserves are amortized on a straight-line basis over the term of the policy (notes 12 and 17).
- Management uses judgment to evaluate the classification of insurance and reinsurance contracts to determine whether these arrangements should be accounted for as insurance, investment or service contracts.
- The actuarial assumptions, such as interest rates, inflation, policyholder behaviour, mortality and morbidity of policyholders, used in the valuation of insurance and certain investment contract liabilities under the Canadian Asset Liability Method require significant judgment and estimation (note 13).

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

- The actuarial assumptions used in determining the expense and benefit obligations for the Company's defined benefit pension plans and other post-employment benefits requires significant judgment and estimation. Management reviews previous experience of its plan members and market conditions including interest rates and inflation rates in evaluating the assumptions used in determining the expense for the current year (note 23).
- The Company operates within various tax jurisdictions where significant management judgments and estimates are required when interpreting the relevant tax laws, regulations and legislation in the determination of the Company's tax provisions and the carrying amounts of its tax assets and liabilities (note 26).
- Management applies judgment in assessing the recoverability of the deferred income tax asset carrying values based on future years' taxable income projections (note 26).
- Legal and other provisions are recognized resulting from a past event which, in the judgment of management, has resulted in a probable outflow of economic resources which would be passed to a third-party to settle the obligation. Management uses judgment to evaluate the possible outcomes and risks in determining the best estimate of the provision at the balance sheet date (note 29).
- The operating segments of the Company are the segments reviewed by the Company's Chief Executive Officer to assess performance and allocate resources within the Company. Management applies judgment in the aggregation of the business units into the Company's operating segments (note 31).
- The Company consolidates all subsidiaries and entities which management determines that the Company controls. Control is evaluated on the ability of the Company to direct the activities of the subsidiary or entity to derive variable returns and management uses judgment in determining whether control exists. Judgment is exercised in the evaluation of the variable returns and in determining the extent to which the Company has the ability to exercise its power to generate variable returns.
- Management uses judgments, such as the determination of whether the Company retains the primary obligation with a client in sub-advisor arrangements. Where the Company retains the primary obligation to the client, revenue and expenses are recorded on a gross basis.
- Within the Consolidated Statements of Cash Flows, purchases and sales of portfolio investments are recorded within investment activities due to management's judgment that these investing activities are long-term in nature.
- The results of the Company reflect management's judgments regarding the impact of prevailing global credit, equity and foreign exchange market conditions. The provision for future credit losses within the Company's insurance contract liabilities relies upon investment credit ratings. The Company's practice is to use third-party independent credit ratings where available. Management judgment is required when setting credit ratings for instruments that do not have a third-party rating.

The significant accounting policies are as follows:

(a) Portfolio Investments

Portfolio investments include bonds, mortgage loans, stocks and investment properties. Portfolio investments are classified as fair value through profit or loss, available-for-sale, held-to-maturity, loans and receivables, equity-method investments or as non-financial instruments based on management's intention relating to the purpose and nature of the instrument or characteristics of the investment. The Company has not classified any investments as held-to-maturity.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Investments in bonds and stocks normally actively traded on a public market or where fair value can be reliably measured are either designated or classified as fair value through profit or loss or classified as available-for-sale on a trade date basis. Equity release mortgages are designated as fair value through profit or loss. A financial asset is designated as fair value through profit or loss on initial recognition if it eliminates or significantly reduces an accounting mismatch. Changes in the fair value of financial assets designated as fair value through profit or loss are generally offset by changes in insurance contract liabilities, since the measurement of insurance contract liabilities is determined with reference to the assets supporting the liabilities. A financial asset is classified as fair value through profit or loss on initial recognition if it is part of a portfolio that is actively traded for the purpose of earning investment income. Fair value through profit or loss investments are recognized at fair value on the Consolidated Balance Sheets with realized and unrealized gains and losses reported in the Consolidated Statements of Earnings. Available-for-sale investments are recognized at fair value on the Consolidated Balance Sheets with unrealized gains and losses recorded in other comprehensive income. Realized gains and losses on available-for-sale investments are reclassified from other comprehensive income and recorded in the Consolidated Statements of Earnings when the investment is sold. Interest income earned on both fair value through profit or loss and available-for-sale bonds is calculated using the effective interest method and is recorded as net investment income in the Consolidated Statements of Earnings.

Investments in stocks where a fair value cannot be measured reliably are classified as available-for-sale and carried at cost. Investments in stocks for which the Company exerts significant influence over but does not control are accounted for using the equity method of accounting. Investments in stocks over which the Company exerts significant influence but does not control include the Company's investment in an affiliated company, IGM Financial Inc. (IGM), a member of the Power Corporation group of companies.

Investments in mortgages and bonds not normally actively traded on a public market are classified as loans and receivables and are carried at amortized cost net of any allowance for credit losses. Interest income earned and realized gains and losses on the sale of investments classified as loans and receivables are recorded in the Consolidated Statements of Earnings and included in net investment income.

Investment properties are real estate held to earn rental income or for capital appreciation. Investment properties are initially measured at cost and subsequently carried at fair value on the Consolidated Balance Sheets. All changes in fair value are recorded as net investment income in the Consolidated Statements of Earnings. Properties held to earn rental income or for capital appreciation that have an insignificant portion that is owner occupied or where there is no intent to occupy on a long-term basis are classified as investment properties. Properties that do not meet these criteria are classified as owner occupied properties. Property that is leased that would otherwise be classified as investment property if owned by the Company is also included within investment properties.

Fair Value Measurement

Financial instrument carrying values necessarily reflect the prevailing market liquidity and the liquidity premiums embedded within the market pricing methods that the Company relies upon.

Fair value movement on the assets supporting insurance contract liabilities is a major factor in the movement of insurance contract liabilities. Changes in the fair value of bonds designated or classified as fair value through profit or loss that support insurance and investment contract liabilities are largely offset by corresponding changes in the fair value of liabilities except when the bond has been deemed impaired.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

The following is a description of the methodologies used to value instruments carried at fair value:

Bonds - Fair Value Through Profit or Loss and Available-for-Sale

Fair values for bonds classified and designated as fair value through profit or loss or available-for-sale are determined with reference to quoted market bid prices primarily provided by third-party independent pricing sources. Where prices are not quoted in an active market, fair values are determined by valuation models. The Company maximizes the use of observable inputs when measuring fair value. The Company obtains quoted prices in active markets, when available, for identical assets at the balance sheet date to measure bonds at fair value in its fair value through profit or loss and available-for-sale portfolios.

The Company estimates the fair value of bonds not traded in active markets by referring to actively traded securities with similar attributes, dealer quotations, matrix pricing methodology, discounted cash flow analyses and/or internal valuation models. This methodology considers such factors as the issuer's industry, the security's rating, term, coupon rate and position in the capital structure of the issuer, as well as, yield curves, credit curves, prepayment rates and other relevant factors. For bonds that are not traded in active markets, valuations are adjusted to reflect illiquidity, and such adjustments generally are based on available market evidence. In the absence of such evidence, management's best estimate is used.

Bonds and Mortgages - Loans and Receivables

For disclosure purposes only, fair values for bonds and mortgages classified as loans and receivables are determined by discounting expected future cash flows using current market rates for similar instruments. Valuation inputs typically include benchmark yields and risk-adjusted spreads based on current lending activities and market activity.

Equity Release Mortgages - Fair Value Through Profit or Loss

There are no market observable prices for equity release mortgages; therefore an internal valuation model is used discounting expected future cash flows and includes consideration of the embedded no negative equity guarantee. Inputs to the model include market observable inputs such as benchmark yields and risk-adjusted spreads. Non market observable inputs include property growth and volatility rates, expected rates of voluntary redemptions, death, moving to long term care and interest cessation assumptions and the value of the no negative equity guarantee.

Stocks - Fair Value Through Profit or Loss and Available-for-Sale

Fair values for stocks traded on an active market are generally determined by the last bid price for the security from the exchange where it is principally traded. Fair values for stocks for which there is no active market is typically based upon alternative valuation techniques such as discounted cash flow analysis, review of price movement relative to the market and utilization of information provided by the underlying investment manager. The Company maximizes the use of observable inputs when measuring fair value. The Company obtains quoted prices in active markets, when available, for identical assets at the balance sheet date to measure stocks at fair value in its fair value through profit or loss and available-for-sale portfolios.

Investment Properties

Fair values for investment properties are determined using independent qualified appraisal services and include management adjustments for material changes in property cash flows, capital expenditures or general market conditions in the interim period between appraisals. The determination of the fair value of investment property requires the use of estimates including future cash flows (such as future leasing assumptions, rental rates, capital and operating expenditures) and discount, reversionary and overall capitalization rates applicable to the asset based on current market conditions. Investment property under construction is valued at fair value if such values can be reliably determined; otherwise they are recorded at cost.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Impairment

Investments are reviewed regularly on an individual basis to determine impairment status. The Company considers various factors in the impairment evaluation process, including, but not limited to, the financial condition of the issuer, specific adverse conditions affecting an industry or region, decline in fair value not related to interest rates, bankruptcy or defaults, and delinquency in payments of interest or principal.

Investments are deemed to be impaired when there is objective evidence that timely collection of future cash flows can no longer be reliably estimated. The fair value of an investment is not a definitive indicator of impairment, as it may be significantly influenced by other factors including the remaining term to maturity and liquidity of the asset; however, market price is taken into consideration when evaluating impairment.

For impaired mortgages and bonds classified as loans and receivables, provisions are established or write-offs made to adjust the carrying value to the net realizable amount. Wherever possible, the fair value of collateral underlying the loans or observable market price is used to establish the net realizable value. For impaired available-for-sale bonds recorded at fair value, the accumulated loss recorded in accumulated other comprehensive income is reclassified to net investment income. Impairments on available-for-sale debt instruments are reversed if there is objective evidence that a permanent recovery has occurred. All gains and losses on bonds classified or designated as fair value through profit or loss are recorded in net investment income, therefore, in the event of an impairment, the reduction will be recorded in net investment income.

Securities Lending

The Company engages in securities lending through its securities custodians as lending agents. Loaned securities are not derecognized, and continue to be reported within invested assets, as the Company retains substantial risks and rewards and economic benefits related to the loaned securities.

(b) Transaction Costs

Transaction costs are expensed as incurred for financial instruments classified as fair value through profit or loss. Transaction costs for financial assets classified as available-for-sale or loans and receivables are added to the value of the instrument at acquisition and taken into net earnings using the effective interest method. Transaction costs for financial liabilities classified as other than fair value through profit or loss are included in the value of the instrument issued and taken into net earnings using the effective interest method.

(c) Cash and Cash Equivalents

Cash and cash equivalents comprise cash, current operating accounts, overnight bank and term deposits with maturities of three months or less held for the purpose of meeting short-term cash requirements. Net payments in transit and overdraft bank balances are included in other liabilities.

(d) Trading Account Assets

Trading account assets consist of investments in sponsored funds, open ended investment companies and sponsored unit-trusts, which are carried at fair value based on the net asset value of these funds. Investments in these assets are included in other assets on the Consolidated Balance Sheets with realized and unrealized gains and losses reported in the Consolidated Statements of Earnings.

(e) Debentures and Other Debt Instruments and Capital Trust Securities

Debentures and other debt instruments and capital trust securities are initially recorded on the Consolidated Balance Sheets at fair value and subsequently carried at amortized cost using the effective interest method with amortization expense recorded in financing charges in the Consolidated Statements of Earnings. These liabilities are derecognized when the obligation is cancelled or redeemed.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

(f) Other Assets and Other Liabilities

Other assets, which include prepaid expenses, deferred acquisition costs, finance leases receivable, right-of-use assets and miscellaneous other assets, are measured at cost or amortized cost. Other liabilities, which include deferred income reserves, bank overdraft, lease liabilities and other miscellaneous liabilities are measured at cost or amortized cost.

Provisions are recognized within other liabilities when the Company has a present obligation, either legal or constructive, resulting from a past event, and in management's judgment, it is probable that an outflow of economic resources will be required to settle the obligation and a reliable estimate can be made of the amount. The amount recognized for provisions are management's best estimate at the balance sheet date. The Company recognizes a provision for restructuring when a detailed formal plan for the restructuring has been established and that the plan has raised a valid expectation in those affected that the restructuring will occur.

Pension and other post-employment benefits also included within other assets and other liabilities are measured in accordance with note 2(x).

(g) Disposal Group Classified as Held For Sale

Disposal groups are classified as held for sale when the carrying amount will be recovered through a sale transaction rather than continuing use. The fair value of a disposal group is measured at the lower of its carrying amount and fair value less costs to sell. Individual assets and liabilities in a disposal group not subject to these measurement requirements include financial assets, investment properties and insurance contract liabilities. These assets and liabilities are measured in accordance with the relevant accounting policies described for those assets and liabilities included in this note before the disposal group as a whole is measured to the lower of its carrying amount and fair value less cost to sell. Any impairment loss for the disposal group is recognized as a reduction to the carrying amount for the portion of the disposal group under the measurement requirements for IFRS 5, *Non-Current Assets Held for Sale and Discontinued Operations*.

Disposal group assets and liabilities classified as held for sale are presented separately on the Company's Consolidated Balance Sheets. Gains and losses from disposal groups held for sale are presented separately in the Company's Consolidated Statements of Earnings.

(h) Derivative Financial Instruments

The Company uses derivative products as risk management instruments to hedge or manage asset, liability and capital positions, including fee and investment income. The Company's policy guidelines prohibit the use of derivative instruments for speculative trading purposes.

The Company includes disclosure of the maximum credit risk, future credit exposure, credit risk equivalent and risk weighted equivalent in note 28 as prescribed by the Office of the Superintendent of Financial Institutions (OSFI) in Canada.

All derivatives including those that are embedded in financial and non-financial contracts that are not closely related to the host contracts are recorded at fair value on the Consolidated Balance Sheets. The method of recognizing unrealized and realized fair value gains and losses depends on whether the derivatives are designated as hedging instruments. For derivatives that are not designated as hedging instruments, unrealized and realized gains and losses are recorded in net investment income in the Consolidated Statements of Earnings. For derivatives designated as hedging instruments, unrealized and realized gains and losses are recognized according to the nature of the hedged item.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Derivatives are valued using market transactions and other market evidence whenever possible, including market based inputs to models, broker or dealer quotations or alternative pricing sources with reasonable levels of price transparency. When models are used, the selection of a particular model to value a derivative depends on the contractual terms of, and specific risks inherent in, the instrument, as well as the availability of pricing information in the market. The Company generally uses similar models to value similar instruments. Valuation models require a variety of inputs, including contractual terms, market prices and rates, yield curves, credit curves, measures of volatility, prepayment rates and correlations of such inputs.

To qualify for hedge accounting, the relationship between the hedged item and the hedging instrument must meet several strict conditions on documentation, probability of occurrence, hedge effectiveness and reliability of measurement. If these conditions are not met, the relationship does not qualify for hedge accounting treatment and both the hedged item and the hedging instrument are reported independently as if there was no hedging relationship.

Where a hedging relationship exists, the Company documents all relationships between hedging instruments and hedged items, as well as its risk management objectives and strategy for undertaking various hedge transactions. This process includes linking derivatives that are used in hedging transactions to specific assets and liabilities on the Consolidated Balance Sheets or to specific firm commitments or forecasted transactions. The Company also assesses, both at the hedge's inception and on an ongoing basis, whether derivatives that are used in hedging transactions are effective in offsetting changes in fair values or cash flows of hedged items. Hedge effectiveness is reviewed quarterly through correlation testing. Hedge accounting is discontinued when the hedging no longer qualifies for hedge accounting.

Derivatives not designated as hedges for accounting purposes

For derivative investments not designated as accounting hedges, changes in fair value are recorded in net investment income.

Fair value hedges

For fair value hedges, changes in fair value of both the hedging instrument and the hedged risk are recorded in net investment income and consequently any ineffective portion of the hedge is recorded immediately in net investment income.

The Company currently uses foreign exchange forward contracts designated as fair value hedges.

Cash flow hedges

For cash flow hedges, the effective portion of the changes in fair value of the hedging instrument is recorded in the same manner as the hedged item while the ineffective portion is recognized immediately in net investment income. Gains and losses that accumulate in other comprehensive income are recorded in net investment income in the same period the hedged item affects net earnings. Gains and losses on cash flow hedges are immediately reclassified from other comprehensive income to net investment income if and when it is probable that a forecasted transaction is no longer expected to occur.

The Company currently uses interest rate swaps and equity total return swaps designated as cash flow hedges.

Net investment hedges

For net investment hedges, the effective portion of changes in the fair value of the hedging instrument are recorded in other comprehensive income while the ineffective portion is recognized immediately in net investment income. The unrealized foreign exchange gains (losses) on the instruments are recorded within accumulated other comprehensive income and will be reclassified into net earnings when the Company disposes of the foreign operation.

The Company currently uses cross-currency swaps, foreign exchange forward contracts, and debt instruments designated as net investment hedges.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

(i) Embedded Derivatives

An embedded derivative is a component of a host contract that modifies the cash flows of the host contract in a manner similar to a derivative, according to a specified interest rate, financial instrument price, foreign exchange rate, underlying index or other variable. Embedded derivatives are treated as separate contracts and are recorded at fair value if their economic characteristics and risks are not closely related to those of the host contract and the host contract is not itself recorded at fair value through the Consolidated Statements of Earnings. Embedded derivatives that meet the definition of an insurance contract are accounted for and measured as an insurance contract.

(j) Foreign Currency Translation

The Company operates with multiple functional currencies. The Company's consolidated financial statements are presented in Canadian dollars as this presentation is most meaningful to financial statement users. For those subsidiaries with different functional currencies, exchange rate differences arising from the translation of monetary items that form part of the net investment in the foreign operation are recorded in unrealized foreign exchange gains (losses) on translation of foreign operations in other comprehensive income.

For the purpose of presenting consolidated financial statements, assets and liabilities are translated into Canadian dollars at the rate of exchange prevailing at the balance sheet dates and all income and expense items are translated at an average of daily rates. Unrealized foreign currency translation gains and losses on translation of the Company's net investment in its foreign operations are presented separately as a component of other comprehensive income. Unrealized gains and losses will be recognized proportionately in net investment income in the Consolidated Statements of Earnings when there has been a disposal of the investment in the foreign operations.

Foreign currency translation gains and losses on foreign currency transactions of the Company are included in net investment income.

(k) Loans to Policyholders

Loans to policyholders are classified as loans and receivables and measured at amortized cost. Loans to policyholders are shown at their unpaid principal balance and are fully secured by the cash surrender values of the policies. Carrying value of loans to policyholders approximates their fair value.

(l) Reinsurance Contracts

The Company, in the normal course of business, is a user of reinsurance in order to limit the potential for losses arising from certain exposures and a provider of reinsurance. Assumed reinsurance refers to the acceptance of certain insurance risks by the Company underwritten by another company. Ceded reinsurance refers to the transfer of insurance risk, along with the respective premiums, to one or more reinsurers who will share the risks. To the extent that assuming reinsurers are unable to meet their obligations, the Company remains liable to its policyholders for the portion reinsured. Consequently, allowances are made for reinsurance contracts which are deemed uncollectible.

Reinsurance contracts are insurance contracts and undergo the classification as described within the Insurance and Investment Contract Liabilities section of this note. Assumed reinsurance premiums, commissions and claim settlements, as well as the reinsurance assets associated with insurance and investment contracts, are accounted for in accordance with the terms and conditions of the underlying reinsurance contract. Reinsurance assets are reviewed for impairment on a regular basis for any events that may trigger impairment. The Company considers various factors in the impairment evaluation process, including but not limited to, collectability of amounts due under the terms of the contract. The carrying amount of a reinsurance asset is adjusted through an allowance account with any impairment loss being recorded in the Consolidated Statements of Earnings.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Any gains or losses on buying reinsurance are recognized in the Consolidated Statements of Earnings immediately at the date of purchase in accordance with the Canadian Asset Liability Method.

Assets and liabilities related to reinsurance are reported on a gross basis on the Consolidated Balance Sheets. The amount of liabilities ceded to reinsurers is estimated in a manner consistent with the claim liability associated with reinsured risks.

(m) Funds Held by Ceding Insurers/Funds Held Under Reinsurance Contracts

On the asset side, funds held by ceding insurers are assets that would normally be paid to the Company but are withheld by the cedant to reduce potential credit risk. Under certain forms of reinsurance contracts it is customary for the cedant to retain amounts on a funds withheld basis supporting the insurance or investment contract liabilities ceded. For the funds withheld assets where the underlying asset portfolio is managed by the Company, the credit risk is retained by the Company. The funds withheld balance where the Company assumes the credit risk is measured at the fair value of the underlying asset portfolio with the change in fair value recorded in net investment income. See note 7 for funds held by ceding insurers that are managed by the Company. Other funds held by ceding insurers are general obligations of the cedant and serve as collateral for insurance contract liabilities assumed from cedants. Funds withheld assets on these contracts do not have fixed maturity dates, their release generally being dependent on the run-off of the corresponding insurance contract liabilities.

On the liability side, funds held under reinsurance contracts consist mainly of amounts retained by the Company from ceded business written on a funds withheld basis. The Company withholds assets related to ceded insurance contract liabilities in order to reduce credit risk.

(n) Business Combinations, Goodwill and Intangible Assets

Business combinations are accounted for using the acquisition method. The Company identifies and classifies, in accordance with the Company's accounting policies, all assets acquired and liabilities assumed as at the acquisition date. Goodwill represents the excess of purchase consideration over the fair value of net assets of the acquired subsidiaries of the Company. Following initial recognition, goodwill is measured at cost less accumulated impairment losses.

Intangible assets represent finite life and indefinite life intangible assets of acquired subsidiaries of the Company and software acquired or internally developed by the Company. Finite life intangible assets include the value of technology/software, certain customer contracts and distribution channels. These finite life intangible assets are amortized over their estimated useful lives, typically ranging between 3 and 30 years.

Indefinite life intangible assets include brands and trademarks, certain customer contracts and the shareholders' portion of acquired future participating account profits. Amounts are classified as indefinite life intangible assets when based on an analysis of all the relevant factors, there is no foreseeable limit to the period over which the asset is expected to generate net cash inflows for the Company. The identification of indefinite life intangible assets is made by reference to relevant factors such as product life cycles, potential obsolescence, industry stability and competitive position. Following initial recognition, indefinite life intangible assets are measured at cost less accumulated impairment losses.

Impairment Testing

Goodwill and indefinite life intangible assets, including those resulting from an acquisition during the year, are tested for impairment annually or more frequently if events indicate that impairment may have occurred. Intangible assets that were previously impaired are reviewed at each reporting date for evidence of reversal. In the event that certain conditions have been met, the Company would be required to reverse the impairment loss or a portion thereof.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Goodwill has been allocated to cash generating unit groupings, representing the lowest level that the assets are monitored for internal reporting purposes. Goodwill is tested for impairment by comparing the carrying value of each cash generating unit grouping to its recoverable amount. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount.

Intangible assets have been allocated to cash generating units, representing the lowest level that the assets are monitored for internal reporting purposes.

Intangible assets with an indefinite useful life are reviewed annually to determine if there are indicators of impairment. If indicators of impairment have been identified, a test for impairment is performed and recognized as necessary. Impairment is assessed by comparing the carrying values of the assets to their recoverable amounts. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount.

The recoverable amount is the higher of the asset's fair value less costs of disposal and value-in-use.

Finite life intangible assets are reviewed annually to determine if there are indicators of impairment and assess whether the amortization periods and methods are appropriate. If indicators of impairment have been identified, a test for impairment is performed and then the amortization of these assets is adjusted or impairment is recognized as necessary.

(o) Revenue Recognition

Premiums for all types of insurance contracts, and contracts with limited mortality or morbidity risk, are generally recognized as revenue when due and collection is reasonably assured.

Interest income on bonds and mortgages is recognized and accrued using the effective interest method.

Dividend income is recognized when the right to receive payment is established. This is the ex-dividend date for listed stocks, and usually the notification date or date when the shareholders have approved the dividend for private equity instruments.

Investment property income includes rents earned from tenants under lease agreements and property tax and operating cost recoveries. Rental income leases with contractual rent increases and rent-free periods are recognized on a straight-line basis over the term of the lease.

Fee income includes fees earned from management of segregated fund assets, proprietary mutual fund assets, record-keeping, fees earned on administrative services only Group health contracts, commissions and fees earned from management services. Fee and other income is recognized on the transfer of services to customers for the amount that reflects the consideration expected to be received in exchange for those services promised.

The Company has sub-advisor arrangements where the Company retains the primary obligation with the client; as a result, fee income earned is reported on a gross basis with the corresponding sub-advisor expense recorded in operating and administrative expenses.

(p) Owner Occupied Properties and Fixed Assets

Property held for own use and fixed assets are carried at cost less accumulated depreciation, disposals and impairments. Depreciation is expensed to write-off the cost of assets, over their estimated useful lives, using the straight-line method, on the following bases:

Owner occupied properties	15 - 20 years
Furniture and fixtures	5 - 10 years
Other fixed assets	3 - 10 years

Depreciation methods, useful lives and residual values are reviewed at least annually and adjusted if necessary.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

(q) Deferred Acquisition Costs

Included in other assets are deferred acquisition costs related to investment contracts and service contracts. These are recognized as assets if the costs are incremental and incurred due to the contract being issued and are primarily amortized on a straight-line basis over the term of the contract, not to exceed 20 years.

(r) Segregated Funds

Segregated fund assets and liabilities arise from contracts where all financial risks associated with the related assets are borne by policyholders and are presented separately on the Consolidated Balance Sheets. The assets and liabilities are set equal to the fair value of the underlying asset portfolio. Investment income and changes in fair value of the segregated fund assets are offset by a corresponding change in the segregated fund liabilities.

(s) Insurance and Investment Contract Liabilities

Contract Classification

When significant insurance risk exists, the Company's products are classified at contract inception as insurance contracts, in accordance with IFRS 4, *Insurance Contracts* (IFRS 4). Significant insurance risk exists when the Company agrees to compensate policyholders or beneficiaries of the contract for specified uncertain future events that adversely affect the policyholder and whose amount and timing is unknown. Refer to note 13 for discussion of insurance risk.

In the absence of significant insurance risk, the contract is classified as an investment contract or service contract. Investment contracts with discretionary participating features are accounted for in accordance with IFRS 4 and investment contracts without discretionary participating features are accounted for in accordance with IAS 39, *Financial Instruments: Recognition & Measurement*. The Company has not classified any contracts as investment contracts with discretionary participating features.

Investment contracts may be reclassified as insurance contracts after inception if insurance risk becomes significant. A contract that is classified as an insurance contract at contract inception remains as such until all rights and obligations under the contract are extinguished or expire.

Investment contracts are contracts that carry financial risk, which is the risk of a possible future change in one or more of the following: interest rate, commodity price, foreign exchange rate, or credit rating. Refer to note 8 for discussion of Financial Instruments Risk Management.

Measurement

Insurance contract liabilities represent the amounts required, in addition to future premiums and investment income, to provide for future benefit payments, policyholder dividends, commission and policy administrative expenses for all insurance and annuity policies in force with the Company. The Appointed Actuaries of the Company's subsidiary companies are responsible for determining the amount of the liabilities to make appropriate provisions for the Company's obligations to policyholders. The Appointed Actuaries determine the liabilities for insurance contracts using generally accepted actuarial practices, according to the standards established by the Canadian Institute of Actuaries. The valuation uses the Canadian Asset Liability Method. This method involves the projection of future events in order to determine the amount of assets that must be set aside currently to provide for all future obligations and involves a significant amount of judgment.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

In the computation of insurance contract liabilities, valuation assumptions have been made regarding rates of mortality/morbidity, investment returns, levels of operating expenses, rates of policy termination and rates of utilization of elective policy options or provisions. The valuation assumptions use best estimates of future experience together with a margin for adverse deviation. These margins are necessary to provide for possibilities of mis-estimation and/or future deterioration in the best estimate assumptions and provide reasonable assurance that insurance contract liabilities cover a range of possible outcomes. Margins are reviewed periodically for continued appropriateness.

Investment contract liabilities are measured at fair value determined using discounted cash flows utilizing the yield curves of financial instruments with similar cash flow characteristics.

(t) Deferred Income Reserves

Included in other liabilities are deferred income reserves relating to investment contracts. These are amortized on a straight-line basis to recognize the initial policy fees over the policy term, not to exceed 20 years.

(u) Income Taxes

The income tax expense for the period represents the sum of current income tax and deferred income tax. Income tax is recognized as an expense or income in profit or loss except to the extent that it relates to items that are recognized outside profit or loss (whether in other comprehensive income or directly in equity), in which case the income tax is also recognized outside profit or loss.

Current Income Tax

Current income tax is based on taxable income for the year. Current income tax liabilities (assets) for the current and prior periods are measured at the amount expected to be paid to (recovered from) the taxation authorities using the tax rates that have been enacted or substantively enacted at the balance sheet date in each respective jurisdiction. Current income tax assets and current income tax liabilities are offset if a legally enforceable right exists to offset the recognized amounts and the entity intends either to settle on a net basis, or to realize the assets and settle the liabilities simultaneously.

A provision for tax treatment uncertainties which meet the probable threshold for recognition is measured using either the most likely amount or the expected value, depending upon which method provides the better prediction of the resolution of the uncertainty. The provision for tax uncertainties will be classified as current or deferred based on how a disallowance of the underlying uncertain tax treatment would impact the tax provision accrual as of the balance sheet date.

Deferred Income Tax

Deferred income tax is the tax expected to be payable or recoverable on differences arising between the carrying amounts of assets and liabilities in the consolidated financial statements and the corresponding tax bases used in the computation of taxable income and is accounted for using the balance sheet liability method. Deferred income tax liabilities are generally recognized for all taxable temporary differences and deferred income tax assets are recognized to the extent that it is probable that taxable profits will be available against which deductible temporary differences, unused tax losses and carryforwards can be utilized.

Recognition is based on the fact that it is probable that the entity will have taxable profits and/or tax planning opportunities available to allow the deferred income tax asset to be utilized. Changes in circumstances in future periods may adversely impact the assessment of the recoverability. The uncertainty of the recoverability is taken into account in establishing the deferred income tax assets. The Company's annual financial planning process provides a significant basis for the measurement of deferred income tax assets.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Deferred income tax assets and liabilities are measured at the tax rates expected to apply in the year when the asset is realized or the liability is settled, based on tax rates (and tax laws) that have been enacted or substantively enacted at the balance sheet date. Deferred income tax assets and deferred income tax liabilities are offset if a legally enforceable right exists to net current income tax assets against current income tax liabilities and the deferred income taxes relate to the same taxable entity and the same taxation authority.

The carrying amount of deferred income tax assets is reviewed at each balance sheet date and reduced to the extent that it is no longer probable that sufficient taxable profit will be available to allow all or part of the deferred income tax asset to be utilized. Unrecognized deferred income tax assets are reassessed at each balance sheet date and are recognized to the extent that it has become probable that future taxable profit will allow the deferred income tax asset to be recovered.

Deferred income tax liabilities are recognized for taxable temporary differences arising on investments in subsidiaries and associates, except where the group controls the timing of the reversal of the temporary difference and it is probable that the temporary differences will not reverse in the foreseeable future.

(v) Policyholder Benefits

Policyholder benefits include benefits and claims on life insurance contracts, maturity payments, annuity payments and surrenders. Gross benefits and claims for life insurance contracts include the cost of all claims arising during the year and settlement of claims. Death claims and surrenders are recorded on the basis of notifications received. Maturities and annuity payments are recorded when due.

(w) Repurchase Agreements

The Company accounts for certain forward settling to be announced security transactions as derivatives as the Company does not regularly accept delivery of such securities when issued.

(x) Pension Plans and Other Post-Employment Benefits

The Company's subsidiaries maintain contributory and non-contributory defined benefit pension plans for eligible employees and advisors. The Company's subsidiaries also provide post-employment health, dental and life insurance benefits to eligible employees, advisors and their dependents.

The present value of the defined benefit obligations and the related current service cost is determined using the projected unit credit method (note 23). Pension plan assets are recorded at fair value.

For the defined benefit plans of the Company's subsidiaries, service costs and net interest costs are recognized in the Consolidated Statements of Earnings. Service costs include current service cost, administration expenses, past service costs and the impact of curtailments and settlements. To determine the net interest costs (income) recognized in the Consolidated Statements of Earnings, the Company's subsidiaries apply a discount rate to the net benefit liability (asset), where the discount rate is determined by reference to market yields at the beginning of the year on high quality corporate bonds.

For the defined benefit plans of the Company's subsidiaries, re-measurements of the net defined benefit liability (asset) due to asset returns less (greater) than interest income, actuarial losses (gains) and changes in the asset ceiling are recognized in the Consolidated Statements of Comprehensive Income.

The Company's subsidiaries also maintain defined contribution pension plans for eligible employees and advisors. For the defined contribution plans of the Company's subsidiaries, the current service costs are recognized in the Consolidated Statements of Earnings.

(y) Equity

Financial instruments issued by the Company are classified as share capital if they represent a residual interest in the assets of the Company. Preferred share capital is classified as equity if it is non-redeemable, or retractable only at the Company's option and any dividends are discretionary.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Limited recourse capital notes are classified as share capital as the Company has the sole discretion to settle the obligation to noteholders through the issuance of a fixed number of the Company's own equity instruments. Interest incurred on these instruments is expensed within financing charges in the Consolidated Statements of Earnings.

Incremental costs that are directly attributable to the issue of share capital are recognized as a deduction from equity, net of income tax.

Contributed surplus represents the vesting expense on unexercised equity instruments under share-based payment plans.

Accumulated other comprehensive income (loss) represents the total of the unrealized foreign exchange gains (losses) on translation of foreign operations, the unrealized gains (losses) on hedges of the net investment in foreign operations, the unrealized gains (losses) on available-for-sale assets, the unrealized gains (losses) on cash flow hedges, the re-measurements on defined benefit pension and other post-employment benefit plans net of tax and the revaluation surplus on transfer to investment properties, where applicable.

Non-controlling interests in subsidiaries represents the proportion of equity that is attributable to minority shareholders.

Participating account surplus in subsidiaries represents the proportion of equity attributable to the participating account of the Company's subsidiaries.

(z) Share-Based Payments

The Company provides share-based compensation to certain employees and Directors of the Company and its subsidiaries.

The Company follows the fair value based method of accounting for the valuation of compensation expense for shares and share options granted to employees under its stock option plans (note 22). This share-based payment expense is recognized in operating and administrative expenses in the Consolidated Statements of Earnings and as an increase to contributed surplus over the vesting period of the granted options. When options are exercised, the proceeds received, along with the amount in contributed surplus, are transferred to share capital.

The Company and certain of its subsidiaries have Deferred Share Unit Plans (DSU Plans) in which the Directors and certain employees of the Company participate. Units issued to Directors under the DSU Plans vest when granted. Units issued to certain employees under the DSU Plans primarily vest over a three year period. The Company recognizes an increase in operating and administrative expenses for the units granted under the DSU Plans. The Company recognizes a liability for units granted under the DSU Plans which is remeasured at each reporting period based on the market value of the Company's common shares.

Certain employees of the Company are entitled to participate in the Performance Share Unit Plan (PSU Plan). Units issued under the PSU Plan vest over a three year period. The Company uses the fair value method to recognize compensation expense for the units granted under the plan over the vesting period, net of related hedges. The liability is remeasured at fair value at each reporting period.

The Company has an Employee Share Ownership Program (ESOP) where, subject to certain conditions being met, the Company will match contributions up to a maximum amount. The Company's contributions are expensed within operating and administrative expenses as incurred.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

(aa) Earnings Per Common Share

Earnings per common share is calculated using net earnings after preferred share dividends and the weighted average number of common shares outstanding. Diluted earnings per share is calculated by adjusting common shareholders' net earnings and the weighted average number of common shares outstanding for the effects of all potential dilutive common shares assuming that all convertible instruments are converted and outstanding options are exercised.

(ab) Leases

Where the Company is the lessee, a right-of-use asset and a lease liability are recognized on the Consolidated Balance Sheets as at the lease commencement date.

Right-of-use assets are initially measured based on the initial amount of lease liability adjusted for any lease payments made at or before the commencement date, plus any initial direct costs incurred and an estimate of costs to dismantle and remove the underlying asset or to restore the underlying asset or the site on which it is located, less any lease incentive received. Right-of-use assets are included within other assets with the exception of right-of-use assets which meet the definition of investment property which are presented within investment properties and subject to the Company's associated accounting policy. Right-of-use assets presented within other assets are depreciated to the earlier of the useful life of the right-of-use asset or the lease term using the straight-line method. Depreciation expense on right-of-use assets is included within operating and administrative expenses.

Lease liabilities are initially measured at the present value of the lease payments that are not paid at the commencement date, discounted using the interest rate implicit in the lease or, if that rate cannot be readily determined, the Company shall use the lessee's incremental borrowing rate. Generally, the Company uses the lessee's incremental borrowing rate as its discount rate. The lease liability is measured at amortized cost using the effective interest method and is included within other liabilities. Interest expense on lease liabilities is included within operating and administrative expenses.

The Company has elected to apply a practical expedient not to recognize right-of-use assets and lease liabilities for short-term leases that have a lease term of 12 months or less and leases of low-value assets.

Where the Company is the lessor under an operating lease for its investment property, the assets subject to the lease arrangement are presented within the Consolidated Balance Sheets. Income from these leases is recognized in the Consolidated Statements of Earnings on a straight-line basis over the lease term.

Investments in a lease that transfers substantially all the risks and rewards of ownership to the lessee are classified as a finance lease. The Company is the lessor under a finance lease and the investment is recognized as a receivable at an amount equal to the net investment in the lease, which is represented as the present value of the minimum lease payments due from the lessee and is presented within the Consolidated Balance Sheets. Payments received from the lessee are apportioned between the recognition of finance lease income and the reduction of the finance lease receivable. Income from the finance leases is recognized in the Consolidated Statements of Earnings at a constant periodic rate of return on the Company's net investment in the finance lease.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

(ac) Operating Segments

Operating segments have been identified based on internal reports that are regularly reviewed by the Company's Chief Executive Officer to allocate resources and assess performance of segments and for which discrete financial information is available. The Company's operating segments include Canada, United States, Europe, Capital and Risk Solutions, and Lifeco Corporate. The Canada segment comprises the Individual Customer and Group Customer business units. GWL&A (financial services) and Putnam (asset management) are included in the United States segment. The Europe segment comprises United Kingdom, Ireland, and Germany. Reinsurance is reported in the Capital and Risk Solutions segment. The Lifeco Corporate segment represents activities and transactions that are not directly attributable to the measurement of the operating segments of the Company.

(ad) Future Accounting Policies

Standard	Summary of Future Changes
IFRS 17 - <i>Insurance Contracts</i>	<p>In May 2017, the IASB issued IFRS 17, <i>Insurance Contracts</i> (IFRS 17), which will replace IFRS 4, <i>Insurance Contracts</i>. In June 2020, the IASB issued amendments to IFRS 17. The amended confirmed effective date for the standard is January 1, 2023. In addition, the IASB confirmed the extension to January 1, 2023 of the exemption for insurers to apply the financial instruments standard, IFRS 9, <i>Financial Instruments</i> (IFRS 9), keeping the alignment of the effective dates for IFRS 9 and IFRS 17.</p> <p>The adoption of IFRS 17 is a significant initiative for the Company supported by a formal governance framework and project plan, for which substantial resources are being dedicated. The Company has assembled a project team that is working on implementation which involves preparing the financial reporting systems and processes for reporting under IFRS 17, policy development and operational and change management. The project team is also monitoring developments from the IASB and various industry groups that the Company has representation on. The Company continues to make progress in implementing its project plan, with key policy decisions near final as well as significant progression on the technology solution.</p> <p>IFRS 17 sets out the requirements for the recognition, measurement, presentation and disclosures of insurance contracts a company issues and reinsurance contracts it holds. IFRS 17 introduces three new measurement models depending on the nature of the insurance contracts: the General Measurement Model, the Premium Allocation Approach and the Variable Fee Approach. IFRS 17 requires entities to measure insurance contract liabilities on the balance sheet as the total of:</p> <ul style="list-style-type: none"> (a) the fulfilment cash flows – the current estimates of amounts that a company expects to collect from premiums and pay out for claims, benefits and expenses, including an adjustment for the timing and risk of those amounts; and (b) the contractual service margin – the future profit for providing insurance coverage.

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Standard	Summary of Future Changes
IFRS 17 - <i>Insurance Contracts</i> , continued	<p>Under IFRS 17, the discount rate used to reflect the time value of money in the fulfillment cash flows must be based on the characteristics of the liability. This is a significant change from IFRS 4 and the Canadian Asset Liability Method, where the discount rate was based on the yield curves of the assets supporting those liabilities (refer to the Company's significant accounting policies in note 2 of these financial statements).</p> <p>The future profit for providing insurance coverage (including impacts of new business) is reflected in the initial recognition of insurance contract liabilities and then recognized into profit or loss over time as the insurance services are provided. IFRS 17 also requires the Company to distinguish between groups of contracts expected to be profit making and groups of contracts expected to be onerous. The Company is required to update the fulfillment cash flows at each reporting date, using current estimates of the amount, timing and uncertainty of cash flows and discount rates. As a result of the new valuation methodologies required under IFRS 17, the Company expects its insurance contract liabilities to increase upon adoption. Specifically, the recognition of the contractual service margin liabilities will also have the effect of reducing accumulated surplus.</p> <p>IFRS 17 will affect how the Company accounts for its insurance contracts and how it reports financial performance in the Consolidated Statements of Earnings, in particular the timing of earnings recognition for insurance contracts. The adoption of IFRS 17 will also have a significant impact on how insurance contract results are presented and disclosed in the consolidated financial statements and on regulatory and tax regimes that are dependent upon IFRS accounting values. The Company is also actively monitoring potential impacts on regulatory capital and the associated ratios and disclosures. OSFI has stated that it intends to maintain capital frameworks consistent with current capital policies and minimizing potential industry-wide capital impacts. The Company continues to assess all these impacts through its global implementation plan, however the change will not impact the economics of the affected businesses or our business model.</p>

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Standard	Summary of Future Changes
IFRS 9 - <i>Financial Instruments</i>	<p>In July 2014, the IASB issued a final version of IFRS 9, <i>Financial Instruments</i> (IFRS 9) to replace IAS 39, <i>Financial Instruments: Recognition and Measurement</i>. The standard provides changes to financial instruments accounting for the following:</p> <ul style="list-style-type: none"> • classification and measurement of financial instruments based on a business model approach for managing financial assets and the contractual cash flow characteristics of the financial asset; • impairment based on an expected loss model; and • hedge accounting that incorporates the risk management practices of an entity. <p>In September 2016, the IASB issued an amendment to IFRS 4, <i>Insurance Contracts</i> (IFRS 4). The amendment “Applying IFRS 9, <i>Financial Instruments</i> with IFRS 4, <i>Insurance Contracts</i>” provides qualifying insurance companies with two options to address the potential volatility associated with implementing the IFRS 9 standard before the new proposed insurance contract standard is effective. The two options are as follows:</p> <ul style="list-style-type: none"> • <i>Deferral Approach</i> - provides the option to defer implementation of IFRS 9 until the effective date of the new insurance contract standard; or • <i>Overlay Approach</i> - provides the option to recognize the volatility that could arise when IFRS 9 is applied within other comprehensive income, rather than profit or loss. <p>The Company qualifies for the amendment and is applying the deferral approach to allow adoption of both IFRS 9 and IFRS 17 simultaneously.</p> <p>The disclosure for the measurement and classification of the Company's portfolio investments provides most of the information required by IFRS 9. Upon adoption, the Company does not expect a material change in the level of invested assets, nor a material increase in earnings volatility, however the Company continues to evaluate the impact of the adoption of this standard with the adoption of IFRS 17.</p> <p>In December 2021, the IASB issued a narrow-scope amendment to the transition requirements of IFRS 17. The Amendment, <i>Initial Application of IFRS 17 and IFRS 9 — Comparative Information (Amendment to IFRS 17)</i>, provides entities that first apply IFRS 17 and IFRS 9 at the same time with the option to present comparative information about a financial asset as if the classification and measurement requirements of IFRS 9 had been applied to that financial asset before. The option is available on an instrument-by-instrument basis. In applying this option, an entity is not required to apply the impairment requirements of IFRS 9.</p>

2. Basis of Presentation and Summary of Accounting Policies (cont'd)

Standard	Summary of Future Changes
IAS 1 – <i>Presentation of Financial Statements</i>	<p>In February 2021, the IASB published <i>Disclosure of Accounting Policies</i>, amendments to IAS 1, <i>Presentation of Financial Statements</i>. The amendments clarify how an entity determines whether accounting policy information is material.</p> <p>These amendments are effective for annual reporting periods beginning on or after January 1, 2023, with earlier application permitted. The Company is evaluating the impact of the adoption of these amendments.</p>
IAS 8 – <i>Accounting Policies, Changes in Accounting Estimates and Errors</i>	<p>In February 2021, the IASB published <i>Definition of Accounting Estimates</i>, amendments to IAS 8, <i>Accounting Policies, Changes in Accounting Estimates and Errors</i>. The amendments clarify the difference between an accounting policy and an accounting estimate.</p> <p>These amendments are effective for annual reporting periods beginning on or after January 1, 2023, with earlier application permitted. The Company is evaluating the impact of the adoption of these amendments.</p>
IAS 12 – <i>Income Taxes</i>	<p>In May 2021, the IASB published <i>Deferred Tax Related to Assets and Liabilities from a Single Transaction</i>, amendments to IAS 12, <i>Income Taxes</i>. The amendments clarify that for transactions in which both deductible and taxable temporary differences arise on initial recognition that result in deferred tax assets and liabilities of the same amount, deferred tax assets and liabilities are to be recognized.</p> <p>These amendments are effective for annual reporting periods beginning on or after January 1, 2023, with earlier application permitted. The Company is evaluating the impact of the adoption of these amendments.</p>
IAS 37 - <i>Provisions, Contingent Liabilities, and Contingent Assets</i>	<p>In May 2020, the IASB issued amendments to IAS 37, <i>Provisions, Contingent Liabilities, and Contingent Assets</i>. The amendments specify which costs should be included when assessing whether a contract will be loss-making.</p> <p>These amendments are effective for annual reporting periods beginning on or after January 1, 2022, with early adoption permitted. The Company does not anticipate a significant impact on its consolidated financial statements as a result of this amendment.</p>
<i>Annual Improvements 2018-2020 Cycle</i>	<p>In May 2020, the IASB issued <i>Annual Improvements 2018-2020 Cycle</i> as part of its ongoing process to efficiently deal with non-urgent narrow scope amendments to IFRS. Two amendments were included in this issue that are applicable for the Company relating to IFRS 9, <i>Financial Instruments</i> and IFRS 16, <i>Leases</i>.</p> <p>The amendments are effective January 1, 2022. The Company does not anticipate a significant impact on its consolidated financial statements as a result of the amendment to IFRS 16, <i>Leases</i>.</p> <p>The Company continues to evaluate the impact of the adoption of the amendment to IFRS 9, <i>Financial Instruments</i> along with the adoption of IFRS 17 on January 1, 2023.</p>

3. Business Acquisitions and Other Transactions

(a) Acquisition of MassMutual Retirement Services Business

On December 31, 2020, GWL&A completed the purchase, via indemnity reinsurance, of the retirement services business of Massachusetts Mutual Life Insurance Company (MassMutual) and assumed the economics and risks associated with the reinsured business. The acquisition strengthens the Company's position as a leader in the U.S. retirement market. The Company anticipates realizing cost synergies through the migration of MassMutual's retirement services business onto the Company's recordkeeping platform. The Company paid a ceding commission of \$2,937 (U.S. \$2,312) net of working capital adjustments to MassMutual, and funded the transaction with existing cash, short-term debt and \$1,973 (U.S. \$1,500) in long-term debt issued on September 17, 2020.

During the fourth quarter of 2021, the Company completed its comprehensive valuation of the fair value of the net assets acquired from MassMutual, and the purchase price allocation.

The ceding commission net of working capital adjustments was adjusted from \$2,937 to \$2,738 (U.S. \$2,312 to U.S. \$2,156).

Initial goodwill presented in the Company's December 31, 2020 consolidated financial statements of \$2,827 (U.S. \$2,226), was adjusted to \$1,807 (U.S. \$1,423). Adjustments were made to the provisional amounts disclosed in the Company's December 31, 2020 consolidated financial statements for the recognition and measurement of intangible assets, assets acquired and liabilities assumed. Intangible assets recognized include customer contracts of \$844 (U.S. \$665) and proprietary mutual fund contracts of \$337 (U.S. \$265), which are net of \$73 (U.S. \$58) of amortization at December 31, 2021.

Comparative information in the Company's consolidated financial statements has not been restated.

The Company determined the fair value of the intangible assets and insurance contract liabilities acquired, using valuation techniques that incorporate projections of cashflows and discount rates. The valuation of intangible assets acquired is determined by applying judgments and estimates for forecasted revenues and earnings, and discount rates. Further, the valuation of the actuarial liabilities assumed are determined by applying judgments and assumptions to determine appropriate valuation models, and projections of cash inflows and outflows using the best estimate of future experience, specifically policyholder behaviour, together with the discount rates.

3. Business Acquisitions and Other Transactions (cont'd)

The amounts assigned to the assets acquired, goodwill, and liabilities assumed on December 31, 2020, and reported as at December 31, 2021 are as follows:

Assets acquired and goodwill

Cash and cash equivalents	\$ 2,669
Bonds	12,084
Mortgage Loans	2,287
Funds held by ceding insurers	9,981
Goodwill	1,807
Intangible assets	1,181
Other assets	124
Deferred tax assets	300
Investments on account of segregated fund policyholders	84,785

Total assets acquired and goodwill	\$ 115,218
---	-------------------

Liabilities assumed

Insurance contract liabilities	\$ 22,317
Investment contract liabilities	5,001
Accounts payable	31
Other liabilities	346
Investment and insurance contracts on account of segregated fund policyholders	84,785

Total liabilities assumed	\$ 112,480
----------------------------------	-------------------

The following provides the change in the carrying value from December 31, 2020 to December 31, 2021 of the goodwill on acquisition:

Goodwill previously reported at December 31, 2020	\$ 2,827
Recognition and measurement of intangible assets	(1,181)
Other measurement period adjustments	161
Goodwill reported at December 31, 2021	\$ 1,807

The goodwill represents the excess of the purchase price over the fair value of the net assets, representing the synergies or future economic benefits arising from other assets acquired that are not individually identified and separately recognized in the acquisition of the MassMutual retirement services business. These synergies represent meaningful expense and revenue opportunities which are expected to be accretive to earnings. \$533 (U.S. \$420) of the goodwill is deductible for tax purposes.

During the year ended December 31, 2021, MassMutual contributed revenue of \$2,861 (U.S. \$2,262) and net earnings of \$199 (U.S. \$158). These amounts are included in the Consolidated Statements of Earnings and Comprehensive Income for the year ended December 31, 2021.

3. *Business Acquisitions and Other Transactions (cont'd)*

(b) Acquisition of Personal Capital Corporation

On August 17, 2020, GWL&A completed the acquisition of 100% of the equity of Personal Capital Corporation. Upon completion of the purchase price allocation in the fourth quarter of 2020, a contingent consideration earn-out provision of \$26 (U.S. \$20) was recognized, representing management's best estimate of growth in assets under management metrics defined in the Merger Agreement. The contingent consideration provision was increased by \$101 (U.S. \$80) in 2021 for a total contingent consideration provision of \$127 (U.S. \$100) at December 31, 2021. The increases in 2021 were due to growth in net new assets above the amount assumed at the date of acquisition.

The Merger Agreement allows for contingent consideration of up to \$222 (U.S. \$175) based on the achievement of growth in assets under management metrics, payable following measurements through December 31, 2021 and December 31, 2022. Changes in the fair value of the contingent consideration measured in accordance with the Merger Agreement subsequent to the completion of the purchase price allocation are recognized in operating and administrative expenses in the Consolidated Statements of Earnings.

(c) Acquisition of Prudential Retirement Services Business

On July 21, 2021, GWL&A announced that it had entered into an agreement to purchase, through a share purchase and a reinsurance transaction, the full-service retirement business of Prudential Financial, Inc. (Prudential). The acquisition further solidifies the Company's position as a leader in the U.S. retirement market. The Company will assume the economics and risks associated with the business, while Prudential will continue to retain the obligation to the contract holders of the reinsured portion. The Company will pay a total transaction value of approximately U.S. \$3,550, and will fund the transaction with \$1,500 (U.S. \$1,193) of limited recourse capital notes (note 19) and up to U.S. \$1,000 of short-term debt, in addition to existing resources. The transaction is expected to close in the first half of 2022, subject to regulatory and customary closing conditions. During the year ended December 31, 2021, the Company incurred transaction expenses of \$9 (U.S. \$7) which are included within operating and administrative expenses in the Consolidated Statements of Earnings.

3. Business Acquisitions and Other Transactions (cont'd)

(d) Acquisition of Ark Life Assurance Company

On November 1, 2021, Irish Life Group Limited (Irish Life), an indirect wholly-owned subsidiary of the Company, completed the acquisition of Ark Life Assurance Company dac (Ark Life) from Phoenix Group Holdings plc for total cash consideration of \$332 (€230). Ark Life is closed to new business and manages a range of pensions, savings and protection policies for its customers in the Irish market.

The initial amounts assigned to the assets acquired, goodwill and liabilities assumed on November 1, 2021, reported as at December 31, 2021 are as follows:

Assets acquired and goodwill

Cash and cash equivalents	\$ 17
Bonds	333
Goodwill	21
Reinsurance Assets	1,238
Premiums in the course of collection, accounts and interest receivable	89
Investments on account of segregated fund policyholders	2,844
Total assets acquired and goodwill	\$ 4,542

Liabilities assumed

Insurance contract liabilities	\$ 1,257
Investment contract liabilities	43
Other liabilities	66
Investment and insurance contracts on account of segregated fund policyholders	2,844
Total liabilities assumed	\$ 4,210

As at December 31, 2021, the accounting for the acquisition is not finalized pending completion of a comprehensive valuation of the net assets acquired. The financial statements at December 31, 2021 reflect management's current best estimate of the purchase price allocation. Final valuation of the assets acquired and liabilities assumed and the completion of the purchase price allocation are expected to occur during the second half of 2022. As at December 31, 2021, provisional amounts for intangible assets have not been separately identified and valued within the assets of the purchase price allocation pending completion of the valuation exercise.

As a result, the excess of the purchase price over the fair value of net assets acquired, representing goodwill of \$21 (€15) on the date of acquisition, will be adjusted in future periods.

The goodwill represents the excess of the purchase price over the fair value of the net assets, representing the synergies or future economic benefits arising from other assets acquired that are not individually identified and separately recognized in the acquisition. These synergies represent meaningful expense and revenue opportunities which are expected to be accretive to earnings.

Revenue and net earnings of Ark Life were not significant to the 2021 results of the Company.

3. Business Acquisitions and Other Transactions (cont'd)

(e) Acquisition of ClaimSecure Inc.

On September 1, 2021, Canada Life completed the acquisition of 100% of the equity of ClaimSecure Inc., a healthcare management firm that provides health and dental claim management services to private and public businesses in Canada.

During the fourth quarter of 2021, the comprehensive valuation of the fair value of the net assets acquired including intangible assets and the final purchase price allocation was substantially completed. As a result, initial goodwill presented in the September 30, 2021 interim unaudited financial statements of \$93 recognized upon the acquisition was adjusted to \$52, due to the recognition and measurement of intangible assets. Revenue and net earnings of ClaimSecure Inc. were not significant to the 2021 results of the Company.

(f) Strategic Relationship with Sagard Holdings

During the fourth quarter of 2021, the Company completed an agreement for a long-term strategic relationship with Sagard Holdings Inc. (Sagard), a wholly-owned subsidiary of Power Corporation, which includes the sale of its United States-based subsidiaries, EverWest Real Estate Investors, LLC and EverWest Advisors, LLC (EverWest) to Sagard, in exchange for a minority shareholding in Sagard's subsidiary, Sagard Holdings Management Inc. EverWest was a wholly-owned subsidiary of Canada Life and its principal activity is real estate investment management. Sagard is a related party. Therefore, the transaction was reviewed and approved by the Company's Conduct Review Committee and certain aspects involving Canada Life were reviewed and approved by its Conduct Review Committee. The carrying value, earnings and proceeds from sale of EverWest are immaterial to the Company.

As part of the strategic relationship with Sagard, the Company has made a capital commitment of up to approximately U.S. \$500 into certain Sagard strategies. The Company has also committed to investing a further approximately U.S. \$2,000 in real estate investments to support EverWest's future growth within Sagard. The strategic relationship with Sagard is intended to advance the Company's strategy to further broaden its access to alternative investment options.

4. Restructuring and Integration Expenses

(a) Canada Restructuring

In 2020, the Company recorded a restructuring provision of \$92 pre-tax (\$68 in the shareholder account and \$24 in the participating account) within restructuring and integration expenses in the Consolidated Statements of Earnings. The after-tax impact of the restructuring provision was \$68 (\$50 in the shareholder account and \$18 in the participating account). The restructuring is associated with the 2020 sale of GLC Asset Management Group Ltd. (GLC) (formerly a wholly-owned subsidiary of Canada Life) to Mackenzie Financial Corporation, changes to the Company's distribution strategy and vision for advisor-based distribution, and termination of the long-term technology infrastructure related sharing agreement with IGM.

At December 31, 2021, the Company has a restructuring provision of \$56 (\$86 at December 31, 2020) remaining in other liabilities. The Company expects to pay out substantially all of these amounts by December 31, 2022. The change in the restructuring provision for the Canada restructuring is set out below:

	2021	2020
Balance, beginning of year	\$ 86	\$ —
Restructuring expenses	—	92
Amounts used	(30)	(6)
Balance, end of year	\$ 56	\$ 86

4. *Restructuring and Integration Expenses (cont'd)*

(b) GWL&A Restructuring

The Company recorded integration expenses of \$74 (\$5 in 2020) and restructuring expenses of \$10 (\$37 in 2020) in the Consolidated Statements of Earnings during year ended December 31, 2021. The restructuring is primarily attributable to additional staff reductions and other exit costs related to the Company's acquisition of the MassMutual retirement services business (note 3).

At December 31, 2021, the Company has a restructuring provision of \$19 (\$37 at December 31, 2020) remaining in other liabilities. The change in the restructuring provision for the GWL&A restructuring is set out below:

	2021	2020
Balance, beginning of year	\$ 37	\$ —
Restructuring expenses	10	37
Amounts used	(28)	—
Balance, end of year	\$ 19	\$ 37

The Company expects to pay out a significant portion of these amounts during 2022. The Company expects to incur further restructuring and integration expenses associated with the MassMutual acquisition (note 3) in 2022.

5. Cash and Cash Equivalents

Cash and cash equivalents include amounts held at the Lifeco holding company level and amounts held in Lifeco's consolidated subsidiary companies.

	2021	2020
Cash	\$ 3,202	\$ 2,978
Short-term deposits	2,873	4,968
Total	\$ 6,075	\$ 7,946

At December 31, 2021, cash and short-term deposits of \$1,303 were restricted for use by the Company (\$2,886 at December 31, 2020) in respect of cash held in trust for reinsurance agreements or with regulatory authorities, cash held under certain indemnity arrangements, client monies held by brokers and cash held in escrow.

6. Portfolio Investments

(a) Carrying values and estimated fair values of portfolio investments are as follows:

	2021		2020	
	Carrying value	Fair value	Carrying value	Fair value
Bonds				
Designated fair value through profit or loss ⁽¹⁾	\$ 103,645	\$ 103,645	\$ 100,839	\$ 100,839
Classified fair value through profit or loss ⁽¹⁾	168	168	2,053	2,053
Available-for-sale	12,123	12,123	11,352	11,352
Loans and receivables	24,676	26,717	23,348	26,545
	140,612	142,653	137,592	140,789
Mortgage loans				
Residential				
Designated fair value through profit or loss ⁽¹⁾	2,609	2,609	2,020	2,020
Loans and receivables	9,580	9,860	9,416	10,024
	12,189	12,469	11,436	12,044
Commercial	16,663	17,189	16,367	17,589
	28,852	29,658	27,803	29,633
Stocks				
Designated fair value through profit or loss ⁽¹⁾	13,269	13,269	10,335	10,335
Available-for-sale ⁽²⁾	209	209	20	20
Available-for-sale, at cost ⁽²⁾⁽³⁾	124	124	163	163
Equity method	581	633	482	445
	14,183	14,235	11,000	10,963
Investment properties	7,763	7,763	6,270	6,270
Total	\$ 191,410	\$ 194,309	\$ 182,665	\$ 187,655

⁽¹⁾ A financial asset is designated as fair value through profit or loss on initial recognition if it eliminates or significantly reduces an accounting mismatch. Changes in the fair value of financial assets designated as fair value through profit or loss are generally offset by changes in insurance contract liabilities, since the measurement of insurance contract liabilities is determined with reference to the assets supporting the liabilities.

A financial asset is classified as fair value through profit or loss on initial recognition if it is part of a portfolio that is actively traded for the purpose of earning investment income.

⁽²⁾ During 2021, reliable measure of fair value was identified for certain stocks previously classified as available-for-sale, at cost. These stocks had a carrying value of \$40 and were remeasured at a fair value of \$147. The difference between the carrying value and fair value of \$107 was recognized as an unrealized gain on available-for-sale assets in the Consolidated Statements of Comprehensive Income. These stocks are now classified as available-for-sale.

⁽³⁾ Fair value cannot be reliably measured, therefore the investments are held at cost.

6. Portfolio Investments (cont'd)

(b) Carrying value of bonds and mortgages by term to maturity are as follows:

	2021			
	Term to maturity			Total
	1 year or less	Over 1 year to 5 years	Over 5 years	
Bonds ⁽¹⁾	\$ 11,118	\$ 28,207	\$ 101,269	\$ 140,594
Mortgage loans ⁽²⁾	1,698	11,281	15,802	28,781
Total	\$ 12,816	\$ 39,488	\$ 117,071	\$ 169,375

	2020			
	Term to maturity			Total
	1 year or less	Over 1 year to 5 years	Over 5 years	
Bonds ⁽¹⁾	\$ 10,690	\$ 28,312	\$ 98,555	\$ 137,557
Mortgage loans ⁽²⁾	1,727	9,523	16,530	27,780
Total	\$ 12,417	\$ 37,835	\$ 115,085	\$ 165,337

⁽¹⁾ Excludes the carrying value of impaired bonds as the ultimate timing of collectability is uncertain.

⁽²⁾ Excludes the carrying value of impaired mortgage loans as the ultimate timing of collectability is uncertain. Mortgage loans include equity release mortgages which do not have a fixed redemption date. The maturity profile of the portfolio has therefore been estimated based on previous redemption experience.

(c) Certain stocks where equity method earnings are computed are discussed below:

A significant amount of the Company's equity method investments relate to the Company's investment, held through Canada Life, in an affiliated company, IGM, a member of the Power Corporation group of companies, over which it exerts significant influence but does not control. The Company's proportionate share of IGM's earnings is recorded in net investment income in the Consolidated Statements of Earnings. The Company owns 9,200,448 shares of IGM at December 31, 2021 (9,200,518 at December 31, 2020) representing a 3.85% ownership interest (3.86% at December 31, 2020). The Company uses the equity method to account for its investment in IGM as it exercises significant influence. Significant influence arises from several factors, including, but not limited to the following: common control of the Company and IGM by Power Corporation, shared representation on the Boards of Directors of the Company and IGM, interchange of managerial personnel, and certain shared strategic alliances, significant intercompany transactions and service agreements that influence the financial and operating policies of both companies.

	2021	2020
Carrying value, beginning of year	\$ 354	\$ 350
Equity method share of IGM net earnings	33	25
Dividends received	(21)	(21)
Carrying value, end of year	\$ 366	\$ 354
Share of equity, end of year	\$ 243	\$ 190
Fair value, end of year	\$ 418	\$ 317

6. Portfolio Investments (cont'd)

The Company and IGM both have a year-end date of December 31. The Company's year-end results are approved and reported before IGM publicly reports its financial result; therefore, the Company reports IGM's financial information by estimating the amount of earnings attributable to the Company, based on prior quarter information as well as other market expectations, to complete equity method accounting. The difference between actual and estimated results is reflected in the subsequent quarter and is not material to the Company's consolidated financial statements.

IGM's financial information as at December 31, 2021 can be obtained in its publicly available information.

At December 31, 2021, IGM owned 37,337,133 (37,337,133 at December 31, 2020) common shares of the Company.

(d) Included in portfolio investments are the following:

(i) Carrying amount of impaired investments

	2021	2020
Impaired amounts by classification		
Fair value through profit or loss	\$ 14	\$ 20
Available-for-sale	7	17
Loans and receivables	71	23
Total	\$ 92	\$ 60

The carrying amount of impaired investments includes \$18 bonds, \$71 mortgage loans and \$3 stocks at December 31, 2021 (\$35 bonds, \$23 mortgage loans and \$2 stocks at December 31, 2020). The above carrying values for loans and receivables are net of allowances of \$28 at December 31, 2021 and \$57 at December 31, 2020.

(ii) The allowance for credit losses and changes in the allowance for credit losses related to investments classified as loans and receivables are as follows:

	2021			2020		
	Bonds	Mortgage loans	Total	Bonds	Mortgage loans	Total
Balance, beginning of year	\$ —	\$ 57	\$ 57	\$ —	\$ 51	\$ 51
Net provision for credit losses - in year	—	30	30	—	16	16
Write-offs, net of recoveries	—	(59)	(59)	—	(10)	(10)
Balance, end of year	\$ —	\$ 28	\$ 28	\$ —	\$ 57	\$ 57

The allowance for credit losses is supplemented by the provision for future credit losses included in insurance contract liabilities.

6. Portfolio Investments (cont'd)

(e) Net investment income comprises the following:

	2021					
	Bonds	Mortgage loans	Stocks	Investment properties	Other	Total
Regular net investment income:						
Investment income earned	\$ 4,262	\$ 916	\$ 391	\$ 422	\$ 636	\$ 6,627
Net realized gains						
Available-for-sale	13	—	14	—	—	27
Other classifications	12	59	7	—	34	112
Net allowances for credit losses on loans and receivables	—	(30)	—	—	—	(30)
Other income (expenses)	—	—	—	(146)	(197)	(343)
	4,287	945	412	276	473	6,393
Changes in fair value through profit or loss assets:						
Classified fair value through profit or loss	(104)	—	—	—	—	(104)
Designated fair value through profit or loss	(4,693)	(121)	2,150	—	70	(2,594)
Recorded at fair value through profit or loss	—	—	—	615	—	615
	(4,797)	(121)	2,150	615	70	(2,083)
Total	\$ (510)	\$ 824	\$ 2,562	\$ 891	\$ 543	\$ 4,310
	2020					
	Bonds	Mortgage loans	Stocks	Investment properties	Other	Total
Regular net investment income:						
Investment income earned	\$ 3,589	\$ 877	\$ 357	\$ 397	\$ 571	\$ 5,791
Net realized gains (losses)						
Available-for-sale	146	—	(5)	—	—	141
Other classifications	33	47	245	—	—	325
Net allowances for credit losses on loans and receivables	—	(16)	—	—	—	(16)
Other income (expenses)	—	—	—	(127)	(151)	(278)
	3,768	908	597	270	420	5,963
Changes in fair value through profit or loss assets:						
Classified fair value through profit or loss	78	—	—	—	—	78
Designated fair value through profit or loss	5,154	157	77	—	307	5,695
Recorded at fair value through profit or loss	—	—	—	(74)	—	(74)
	5,232	157	77	(74)	307	5,699
Total	\$ 9,000	\$ 1,065	\$ 674	\$ 196	\$ 727	\$ 11,662

6. Portfolio Investments (cont'd)

Investment income earned comprises income from investments that are classified as available-for-sale, loans and receivables and investments classified or designated as fair value through profit or loss. Investment income from bonds and mortgages includes interest income and premium and discount amortization. Income from stocks includes dividends, distributions from private equity and equity income from the investment in IGM. Investment properties income includes rental income earned on investment properties, ground rent income earned on leased and sub-leased land, fee recoveries, lease cancellation income, and interest and other investment income earned on investment properties. Other income includes policyholder loan income, foreign exchange gains and losses, income earned from derivative financial instruments and other miscellaneous income.

(f) Transferred Financial Assets

The Company engages in securities lending to generate additional income. The Company's securities custodians are used as lending agents. Collateral, which exceeds the fair value of the loaned securities, is deposited by the borrower with the Company's lending agent and maintained by the lending agent until the underlying security has been returned. The fair value of the loaned securities is monitored on a daily basis by the lending agent who obtains or refunds additional collateral as the fair value of the loaned securities fluctuates. Included in the collateral deposited with the Company's lending agent is cash collateral of \$169 at December 31, 2021 (\$267 at December 31, 2020). In addition, the securities lending agent indemnifies the Company against borrower risk, meaning that the lending agent agrees contractually to replace securities not returned due to a borrower default. As at December 31, 2021, the Company had loaned securities (which are included in invested assets) with a fair value of \$10,525 (\$8,921 at December 31, 2020).

7. Funds Held by Ceding Insurers

At December 31, 2021, the Company had amounts on deposit of \$17,194 (\$18,383 at December 31, 2020) for funds held by ceding insurers on the Consolidated Balance Sheets. Income and expenses arising from the agreements are included in net investment income in the Consolidated Statements of Earnings.

The details of the funds on deposit for certain agreements where the Company has credit risk are as follows:

(a) Carrying values and estimated fair values:

	2021		2020	
	Carrying value	Fair value	Carrying value	Fair value
Cash and cash equivalents	\$ 336	\$ 336	\$ 245	\$ 245
Bonds	14,105	14,105	15,365	15,365
Mortgages	558	558	578	578
Other assets	126	126	137	137
Total	\$ 15,125	\$ 15,125	\$ 16,325	\$ 16,325
Supporting:				
Reinsurance liabilities	\$ 14,907	\$ 14,907	\$ 16,094	\$ 16,094
Surplus	218	218	231	231
Total	\$ 15,125	\$ 15,125	\$ 16,325	\$ 16,325

7. Funds Held by Ceding Insurers (cont'd)

(b) The following provides details of the carrying value of bonds included in the funds on deposit by issuer and industry sector:

	2021	2020
Bonds issued or guaranteed by:		
Treasuries	\$ 1,032	\$ 843
Government related	1,463	1,760
Agency securitized	183	287
Non-agency securitized	1,660	1,870
Financials	2,628	2,989
Communications	427	503
Consumer products	2,031	2,141
Energy	644	589
Industrials	1,243	1,420
Technology	498	344
Transportation	404	466
Utilities	1,892	2,101
Total long-term bonds	14,105	15,313
Short-term bonds	—	52
Total	\$ 14,105	\$ 15,365

(c) The following provides details of the carrying value of mortgages included in the funds on deposit by property type:

	2021	2020
Multi-family residential	\$ 126	\$ 122
Commercial	432	456
Total	\$ 558	\$ 578

(d) Asset quality

Bond Portfolio by Credit Rating

	2021	2020
AAA	\$ 1,251	\$ 1,508
AA	3,721	3,848
A	5,222	5,597
BBB	3,749	4,165
BB and lower	162	247
Total	\$ 14,105	\$ 15,365

8. Financial Instruments Risk Management

The Company has policies relating to the identification, measurement, management, monitoring and reporting of risks associated with financial instruments. The key risks related to financial instruments are credit risk, liquidity risk and market risk (currency, interest rate and equity). The Risk Committee of the Board of Directors is responsible for the oversight of the Company's key risks.

The following sections describe how the Company manages each of these risks.

(a) Credit Risk

Credit risk is the risk of loss resulting from an obligor's potential inability or unwillingness to fully meet its contractual obligations.

The following policies and procedures are in place to manage this risk:

- Investment and risk policies aim to minimize undue concentration within issuers, connected companies, industries or individual geographies.
- Investment and risk limits specify minimum and maximum limits for each asset class.
- Identification of credit risk through an internal credit risk rating system which includes a detailed assessment of an obligor's creditworthiness. Internal credit risk ratings cannot be higher than the highest rating provided by certain independent ratings companies.
- Portfolios are monitored continuously, and reviewed regularly with the Risk Committee and the Investment Committee of the Board of Directors.
- Credit risk associated with derivative instruments is evaluated quarterly based on conditions that existed at the balance sheet date, using practices that are at least as conservative as those recommended by regulators. The Company manages derivative credit risk by including derivative exposure to aggregate credit exposures measured against rating based obligor limits and through collateral arrangements where possible.
- Counterparties providing reinsurance to the Company are reviewed for financial soundness as part of an ongoing monitoring process. The minimum financial strength of reinsurers is outlined in the Reinsurance Risk Management Policy. The Company seeks to minimize reinsurance credit risk by setting rating based limits on net ceded exposure by counterparty as well as seeking protection in the form of collateral or funds withheld arrangements where possible.
- Investment guidelines also specify collateral requirements.

8. Financial Instruments Risk Management (cont'd)

(i) Maximum Exposure to Credit Risk

The following summarizes the Company's maximum exposure to credit risk related to financial instruments. The maximum credit exposure is the carrying value of the asset net of any allowances for losses.

	2021	2020
Cash and cash equivalents	\$ 6,075	\$ 7,946
Bonds		
Fair value through profit or loss	103,813	102,892
Available-for-sale	12,123	11,352
Loans and receivables	24,676	23,348
Mortgage loans	28,852	27,803
Loans to policyholders	8,319	8,387
Funds held by ceding insurers ⁽¹⁾	17,194	18,383
Reinsurance assets	21,138	22,121
Interest due and accrued	1,239	1,320
Accounts receivable	3,183	3,080
Premiums in course of collection	1,944	1,702
Trading account assets	1,671	713
Finance leases receivable	433	404
Other assets ⁽²⁾	1,196	965
Derivative assets	967	829
Total	\$ 232,823	\$ 231,245

⁽¹⁾ Includes \$15,125 (\$16,325 at December 31, 2020) of funds held by ceding insurers where the Company retains the credit risk of the assets supporting the liabilities ceded (note 7).

⁽²⁾ Includes items such as current income taxes receivable and miscellaneous other assets of the Company (note 12).

Credit risk is also mitigated by entering into collateral agreements. The amount and type of collateral required depends on an assessment of the credit risk of the counterparty. Guidelines are implemented regarding the acceptability of types of collateral and the valuation parameters. Management monitors the value of the collateral, requests additional collateral when needed and performs an impairment valuation when applicable. The Company has \$318 of collateral received from counterparties as at December 31, 2021 (\$211 at December 31, 2020) relating to derivative assets.

As at December 31, 2021, \$14,512 of the \$21,138 of reinsurance assets are ceded to Protective (\$15,690 of \$22,121 at December 31, 2020). This concentration risk is mitigated by funds held in trust and other arrangements of \$15,963 as at December 31, 2021 (\$16,389 at December 31, 2020).

(ii) Concentration of Credit Risk

Concentrations of credit risk arise from exposures to a single obligor, a group of related obligors or groups of obligors that have similar credit risk characteristics and operate in the same geographic region or in similar industries. The characteristics are similar in that changes in economic or political environments may impact their ability to meet obligations as they come due.

8. Financial Instruments Risk Management (cont'd)

The following provides details of the carrying value of bonds by issuer, industry sector and operating segment:

2021					
	Canada	United States	Europe	Capital and Risk Solutions	Total
Bonds issued or guaranteed by:					
Treasuries	\$ 529	\$ 109	\$ 10,334	\$ 4,735	\$ 15,707
Government related	19,501	2,183	8,694	349	30,727
Agency securitized	178	497	—	17	692
Non-agency securitized	2,215	7,788	1,149	165	11,317
Financials	3,794	6,251	5,748	886	16,679
Communications	1,104	1,235	1,032	113	3,484
Consumer products	4,029	5,461	2,412	736	12,638
Energy	2,602	2,634	482	330	6,048
Industrials	2,092	4,707	1,393	348	8,540
Technology	729	1,732	411	319	3,191
Transportation	3,674	1,227	897	135	5,933
Utilities	9,971	5,028	4,480	506	19,985
Total long-term bonds	50,418	38,852	37,032	8,639	134,941
Short-term bonds	2,854	1,976	644	197	5,671
Total	\$ 53,272	\$ 40,828	\$ 37,676	\$ 8,836	\$ 140,612
2020					
	Canada	United States	Europe	Capital and Risk Solutions	Total
Bonds issued or guaranteed by:					
Treasuries	\$ 586	\$ 272	\$ 10,282	\$ 1,372	\$ 12,512
Government related	20,555	2,308	9,287	316	32,466
Agency securitized	178	926	—	17	1,121
Non-agency securitized	2,057	6,550	1,402	136	10,145
Financials	4,361	6,022	5,880	572	16,835
Communications	1,142	1,338	1,124	98	3,702
Consumer products	4,197	6,127	2,816	762	13,902
Energy	2,453	2,450	675	270	5,848
Industrials	2,022	4,585	1,329	406	8,342
Technology	557	1,324	299	263	2,443
Transportation	3,409	1,394	977	154	5,934
Utilities	10,091	4,485	4,811	553	19,940
Total long-term bonds	51,608	37,781	38,882	4,919	133,190
Short-term bonds	2,332	557	1,066	447	4,402
Total	\$ 53,940	\$ 38,338	\$ 39,948	\$ 5,366	\$ 137,592

8. Financial Instruments Risk Management (cont'd)

The following provides details of the carrying value of mortgage loans by operating segment:

2021					
	Canada	United States	Europe	Capital and Risk Solutions	Total
Single family residential	\$ 1,979	\$ —	\$ —	\$ —	\$ 1,979
Multi-family residential	4,297	2,474	792	38	7,601
Equity release	1,063	—	1,546	—	2,609
Commercial	9,364	3,696	3,553	50	16,663
Total	\$ 16,703	\$ 6,170	\$ 5,891	\$ 88	\$ 28,852

2020					
	Canada	United States	Europe	Capital and Risk Solutions	Total
Single family residential	\$ 2,063	\$ —	\$ —	\$ —	\$ 2,063
Multi-family residential	4,331	2,297	684	41	7,353
Equity release	759	—	1,261	—	2,020
Commercial	8,883	3,660	3,801	23	16,367
Total	\$ 16,036	\$ 5,957	\$ 5,746	\$ 64	\$ 27,803

(iii) Asset Quality

Bond Portfolio by Credit Rating

	2021	2020
AAA	\$ 20,254	\$ 21,820
AA	35,460	35,530
A	48,764	45,673
BBB	35,098	33,382
BB and lower	1,036	1,187
Total	\$ 140,612	\$ 137,592

Derivative Portfolio by Credit Rating

	2021	2020
Over-the-counter contracts (counterparty ratings):		
AA	\$ 662	\$ 424
A	304	369
BBB	—	35
Exchange-traded	1	1
Total	\$ 967	\$ 829

8. Financial Instruments Risk Management (cont'd)

(iv) Loans Past Due, But Not Impaired

Loans that are past due but not considered impaired are loans for which scheduled payments have not been received, but management has reasonable assurance of collection of the full amount of principal and interest due. The following provides carrying values of the loans past due, but not impaired:

	2021	2020
Less than 30 days	\$ 164	\$ 17
30 - 90 days	34	28
Greater than 90 days	141	10
Total	\$ 339	\$ 55

- (v) The following outlines the future asset credit losses provided for in insurance contract liabilities. These amounts are in addition to the allowance for asset losses included with assets:

	2021	2020
Participating	\$ 1,376	\$ 1,183
Non-participating	1,895	2,185
Total	\$ 3,271	\$ 3,368

(b) Liquidity Risk

Liquidity risk is the risk that the Company will not be able to meet all cash outflow obligations as they come due. The following policies and procedures are in place to manage this risk:

- The Company closely manages operating liquidity through cash flow matching of assets and liabilities and forecasting earned and required yields, to ensure consistency between policyholder requirements and the yield of assets. Approximately 48% (approximately 48% in 2020) of insurance and investment contract liabilities are non-cashable prior to maturity or claim, with a further 24% approximately (26% in 2020) of insurance and investment contract liabilities subject to fair value adjustments under certain conditions.
- Management closely monitors the solvency and capital positions of its principal subsidiaries opposite liquidity requirements at the holding company. Additional liquidity is available through established lines of credit or via capital market transactions. At December 31, 2021, the Company maintains \$950 of liquidity at the Lifeco level through committed lines of credit with Canadian chartered banks. As well, the Company maintains a U.S. \$500 revolving credit agreement at Great-West Lifeco U.S. LLC, a U.S. \$300 revolving credit agreement with a syndicate of banks for use by Putnam, and a U.S. \$50 line of credit at GWL&A.

8. Financial Instruments Risk Management (cont'd)

In the normal course of business the Company enters into contracts that give rise to commitments of future minimum payments that impact short-term and long-term liquidity. The following summarizes the principal repayment schedule for certain of the Company's financial liabilities.

	Payments due by period						Over 5 years
	Total	1 year	2 years	3 years	4 years	5 years	
Debentures and other debt instruments	\$ 8,529	\$ —	\$ 720	\$ —	\$ 635	\$ 720	\$ 6,454
Capital trust securities ⁽¹⁾	150	—	—	—	—	—	150
Purchase obligations	436	192	85	44	35	15	65
Pension contributions	306	306	—	—	—	—	—
Total	\$ 9,421	\$ 498	\$ 805	\$ 44	\$ 670	\$ 735	\$ 6,669

⁽¹⁾ Payments due have not been reduced to reflect that the Company held capital trust securities of \$37 principal amount (\$53 carrying value).

(c) Market Risk

Market risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate as a result of changes in market factors which include three types: currency risk, interest rate (including related inflation) risk and equity risk.

Caution Related to Risk Sensitivities

These consolidated financial statements include estimates of sensitivities and risk exposure measures for certain risks, such as the sensitivity due to specific changes in interest rate levels projected and market prices as at the valuation date. Actual results can differ significantly from these estimates for a variety of reasons including:

- Assessment of the circumstances that led to the scenario may lead to changes in (re)investment approaches and interest rate scenarios considered,
- Changes in actuarial, investment return and future investment activity assumptions,
- Actual experience differing from the assumptions,
- Changes in business mix, effective income tax rates and other market factors,
- Interactions among these factors and assumptions when more than one changes, and
- The general limitations of the Company's internal models.

For these reasons, the sensitivities should only be viewed as directional estimates of the underlying sensitivities for the respective factors based on the assumptions outlined above. Given the nature of these calculations, the Company cannot provide assurance that the actual impact on net earnings attributed to shareholders will be as indicated.

(i) Currency Risk

Currency risk relates to the Company operating and holding financial instruments in different currencies. For the assets backing insurance and investment contract liabilities that are not matched by currency, changes in foreign exchange rates can expose the Company to the risk of foreign exchange losses not offset by liability decreases. The Company has net investments in foreign operations. The Company's debt obligations are denominated in Canadian dollars, euros, and U.S. dollars. In accordance with IFRS, foreign currency translation gains and losses from net investments in foreign operations, net of related hedging activities and tax effects, are recorded in accumulated other comprehensive income. Strengthening or weakening of the Canadian dollar spot rate compared to the U.S. dollar, British pound and euro spot rates impacts the Company's total equity. Correspondingly, the Company's book value per share and capital ratios monitored by rating agencies are also impacted.

8. Financial Instruments Risk Management (cont'd)

The following policies and procedures are in place to mitigate the Company's exposure to currency risk:

- The Company uses financial measures such as constant currency calculations to monitor the effect of currency translation fluctuations.
- Investments are normally made in the same currency as the liabilities supported by those investments. Segmented Investment Guidelines include maximum tolerances for unhedged currency mismatch exposures.
- For assets backing liabilities not matched by currency, the Company would normally convert the assets back to the currency of the liability using foreign exchange contracts.
- A 10% weakening of the Canadian dollar against foreign currencies would be expected to increase non-participating insurance and investment contract liabilities and their supporting assets by approximately the same amount resulting in an immaterial change to net earnings. A 10% strengthening of the Canadian dollar against foreign currencies would be expected to decrease non-participating insurance and investment contract liabilities and their supporting assets by approximately the same amount resulting in an immaterial change in net earnings.

(ii) Interest Rate Risk

Interest rate risk exists if asset and liability cash flows are not closely matched and interest rates change causing a difference in value between the asset and liability. The following policies and procedures are in place to mitigate the Company's exposure to interest rate risk:

- The Company utilizes a formal process for managing the matching of assets and liabilities. This involves grouping general fund assets and liabilities into segments. Assets in each segment are managed in relation to the liabilities in the segment.
- Interest rate risk is managed by investing in assets that are suitable for the products sold.
- Where these products have benefit or expense payments that are dependent on inflation (inflation-indexed annuities, pensions and disability claims) the Company generally invests in real return instruments to hedge its real dollar liability cash flows. Some protection against changes in the inflation index is achieved as any related change in the fair value of the assets will be largely offset by a similar change in the fair value of the liabilities.
- For products with fixed and highly predictable benefit payments, investments are made in fixed income assets or real estate whose cash flows closely match the liability product cash flows. Where assets are not available to match certain period cash flows, such as long-tail cash flows, a portion of these are invested in equities and the rest are duration matched. Hedging instruments are employed where necessary when there is a lack of suitable permanent investments to minimize loss exposure to interest rate changes. To the extent these cash flows are matched, protection against interest rate change is achieved and any change in the fair value of the assets will be offset by a similar change in the fair value of the liabilities.
- For products with less predictable timing of benefit payments, investments are made in fixed income assets with cash flows of a shorter duration than the anticipated timing of benefit payments, or equities as described below.
- The risk associated with the mismatch in portfolio duration and cash flow, asset prepayment exposure and the pace of asset acquisition are quantified and reviewed regularly.

Projected cash flows from the current assets and liabilities are used in the Canadian Asset Liability Method to determine insurance contract liabilities. Valuation assumptions have been made regarding rates of returns on supporting assets, fixed income, equity and inflation. The valuation assumptions use best estimates of future reinvestment rates and inflation assumptions with an assumed correlation together with margins for adverse deviation set in accordance with professional standards. These margins are necessary to provide for possibilities of misestimation and/or future deterioration in the best estimate assumptions and provide reasonable assurance that insurance contract liabilities cover a range of possible outcomes. Margins are reviewed periodically for continued appropriateness.

8. Financial Instruments Risk Management (cont'd)

Projected cash flows from fixed income assets used in actuarial calculations are reduced to provide for potential asset default losses. The net effective yield rate reduction averaged 0.11% in 2021 (0.11% in 2020). The calculation for future credit losses on assets is based on the credit quality of the underlying asset portfolio.

Testing under a number of interest rate scenarios (including increasing, decreasing and fluctuating rates) is done to assess reinvestment risk because the Company's sensitivity to interest rate movements varies at different terms.

The total provision for interest rates is sufficient to cover a broader or more severe set of risks than the minimum arising from the current Canadian Institute of Actuaries prescribed scenarios. The range of interest rates covered by these provisions is set in consideration of long-term historical results and is monitored quarterly with a full review annually.

The impact to the value of liabilities from an immediate parallel 1% increase or 1% decrease in the interest rates would be largely offset by changes in the value of assets supporting the liabilities.

The following table provides information on the impact to the value of liabilities net of changes in the value of assets supporting liabilities of an immediate parallel 1% increase or 1% decrease in the interest rates as well as a corresponding parallel shift in the ultimate reinvestment rates, as defined in the actuarial standards.

	2021		2020	
	1% increase	1% decrease ⁽¹⁾	1% increase	1% decrease ⁽¹⁾
Change in interest rates				
Increase (decrease) in non-participating insurance and investment contract liabilities	\$ (219)	\$ 678	\$ (289)	\$ 1,185
Increase (decrease) in net earnings	\$ 197	\$ (555)	\$ 224	\$ (920)

⁽¹⁾ For the 1% decrease, initial risk-free yields are floored at zero, wherever risk-free yields are not currently negative.

(iii) Equity Risk

Equity risk is the uncertainty associated with the valuation of assets and liabilities arising from changes in equity markets and other pricing risk. To mitigate pricing risk, the Company has investment policy guidelines in place that provide for prudent investment in equity markets within clearly defined limits. The risks associated with segregated fund guarantees on lifetime Guaranteed Minimum Withdrawal Benefits have been mitigated through a hedging program using equity futures, currency forwards, and interest rate derivatives.

Some insurance and investment contract liabilities with long-tail cash-flows are supported by publicly traded common stocks and investments in other non-fixed income assets, primarily comprised of investment properties, real estate funds, private stocks, and equity release mortgages. The value of the liabilities may fluctuate with changes in the value of the supporting assets. The liabilities for other products such as segregated fund products with guarantees also fluctuate with equity values.

There may be additional market and liability impacts as a result of changes in the value of publicly traded common stocks and other non-fixed income assets that will cause the liabilities to fluctuate differently than the equity values. This means that there is a greater impact on net earnings from larger falls in equity values, relative to the change in equity values. Falls in equity values beyond those shown in the table below would have a greater impact on net earnings, relative to the change in equity values.

8. Financial Instruments Risk Management (cont'd)

The following table provides information on the expected impacts of an immediate 10% or 20% increase or decrease in the value of publicly traded common stocks on insurance and investment contract liabilities and on the shareholders' net earnings of the Company. The expected impacts take into account the expected changes in the value of assets supporting liabilities and hedge assets.

	2021				2020			
	20% increase	10% increase	10% decrease	20% decrease	20% increase	10% increase	10% decrease	20% decrease
Change in publicly traded common stock values								
Increase (decrease) in non-participating insurance and investment contract liabilities	\$ (26)	\$ (16)	\$ 22	\$ 76	\$ (34)	\$ (18)	\$ 62	\$ 264
Increase (decrease) in net earnings	\$ 21	\$ 13	\$ (19)	\$ (66)	\$ 28	\$ 15	\$ (51)	\$ (208)

The following table provides information on the expected impacts of an immediate 5% or 10% increase or decrease in the value of other non-fixed income assets on insurance and investment contract liabilities and on the shareholders' net earnings of the Company. The expected impacts take into account the expected changes in the value of assets supporting liabilities.

	2021				2020			
	10% increase	5% increase	5% decrease	10% decrease	10% increase	5% increase	5% decrease	10% decrease
Change in other non-fixed income asset values								
Increase (decrease) in non-participating insurance and investment contract liabilities	\$ (92)	\$ (46)	\$ 38	\$ 144	\$ (41)	\$ (8)	\$ 88	\$ 138
Increase (decrease) in net earnings	\$ 79	\$ 39	\$ (30)	\$ (112)	\$ 34	\$ 6	\$ (69)	\$ (108)

The Canadian Institute of Actuaries Standards of Practice for the valuation of insurance contract liabilities establish limits on the investment return assumptions for publicly traded common stocks and other non-fixed income assets which are generally based on historical returns on market indices. The sensitivities shown in the tables above allow for the impact of changes in these limits following market falls.

The best estimate return assumptions for publicly traded common stocks and other non-fixed income assets are primarily based on long-term historical averages. The following provides information on the expected impacts of a 1% increase or 1% decrease in the best estimate assumptions:

	2021		2020	
	1% increase	1% decrease	1% increase	1% decrease
Change in best estimate return assumptions				
Increase (decrease) in non-participating insurance contract liabilities	\$ (715)	\$ 829	\$ (691)	\$ 861
Increase (decrease) in net earnings	\$ 567	\$ (649)	\$ 556	\$ (682)

8. *Financial Instruments Risk Management (cont'd)*

The Company sponsors a number of deferred compensation arrangements for employees where payments to participants are deferred and linked to the performance of the common shares of Lifeco. The Company hedges its exposure to the equity risk associated with its PSU Plan through the use of total return swaps.

(d) Enforceable Master Netting Arrangements or Similar Agreements

The Company enters into International Swaps and Derivative Association's (ISDA's) master agreements for transacting over-the-counter derivatives. The Company receives and pledges collateral according to the related ISDA's Credit Support Annexes. The ISDA's master agreements do not meet the criteria for offsetting on the Consolidated Balance Sheets because they create a right of set-off that is enforceable only in the event of default, insolvency, or bankruptcy.

For exchange-traded derivatives subject to derivative clearing agreements with the exchanges and clearinghouses, there is no provision for set-off at default. Initial margin is excluded from the table within this disclosure as it would become part of a pooled settlement process.

The Company's reverse repurchase agreements are also subject to right of set-off in the event of default. These transactions and agreements include master netting arrangements which provide for the netting of payment obligations between the Company and its counterparties in the event of default.

8. Financial Instruments Risk Management (cont'd)

The table sets out the potential effect on the Company's Consolidated Balance Sheets on financial instruments that have been shown in a gross position where right of set-off exists under certain circumstances that do not qualify for netting on the Consolidated Balance Sheets.

2021				
	Related amounts not set-off in the Balance Sheet			
	Gross amount of financial instruments presented in the Balance Sheet	Offsetting counterparty position ⁽¹⁾	Financial collateral received/ pledged ⁽²⁾	Net exposure
Financial instruments - assets				
Derivative financial instruments	\$ 967	\$ (527)	\$ (293)	\$ 147
Reverse repurchase agreements ⁽³⁾	—	—	—	—
Total financial instruments - assets	\$ 967	\$ (527)	\$ (293)	\$ 147
Financial instruments - liabilities				
Derivative financial instruments	\$ 1,030	\$ (527)	\$ (279)	\$ 224
Total financial instruments - liabilities	\$ 1,030	\$ (527)	\$ (279)	\$ 224
2020				
	Related amounts not set-off in the Balance Sheet			
	Gross amount of financial instruments presented in the Balance Sheet	Offsetting counterparty position ⁽¹⁾	Financial collateral received/ pledged ⁽²⁾	Net exposure
Financial instruments - assets				
Derivative financial instruments	\$ 829	\$ (596)	\$ (154)	\$ 79
Reverse repurchase agreements ⁽³⁾	4	—	(4)	—
Total financial instruments - assets	\$ 833	\$ (596)	\$ (158)	\$ 79
Financial instruments - liabilities				
Derivative financial instruments	\$ 1,221	\$ (596)	\$ (361)	\$ 264
Total financial instruments - liabilities	\$ 1,221	\$ (596)	\$ (361)	\$ 264

⁽¹⁾ Includes counterparty amounts recognized on the Consolidated Balance Sheets where the Company has a potential offsetting position (as described above) but does not meet the criteria for offsetting on the balance sheet, excluding collateral.

⁽²⁾ Financial collateral presented above excludes overcollateralization and, for exchange-traded derivatives, initial margin. Financial collateral received on reverse repurchase agreements is held by a third party. At December 31, 2021, total financial collateral, including initial margin and overcollateralization, received on derivative assets was \$318 (\$211 at December 31, 2020), received on reverse repurchase agreements was nil (\$4 at December 31, 2020), and pledged on derivative liabilities was \$480 (\$560 at December 31, 2020).

⁽³⁾ Assets related to reverse repurchase agreements are included in bonds, on the Consolidated Balance Sheets.

9. Fair Value Measurement

The Company's assets and liabilities recorded at fair value have been categorized based upon the following fair value hierarchy:

Level 1: Fair value measurements utilize observable, quoted prices (unadjusted) in active markets for identical assets or liabilities that the Company has the ability to access. Assets and liabilities utilizing Level 1 inputs include actively exchange-traded equity securities, exchange-traded futures, and mutual and segregated funds which have available prices in an active market with no redemption restrictions.

Level 2: Fair value measurements utilize inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. Level 2 inputs include quoted prices for similar assets and liabilities in active markets, and inputs other than quoted prices that are observable for the asset or liability, such as interest rates and yield curves that are observable at commonly quoted intervals. The fair values for some Level 2 securities were obtained from a pricing service. The pricing service inputs include, but are not limited to, benchmark yields, reported trades, broker/dealer quotes, issuer spreads, two-sided markets, benchmark securities, offers and reference data. Level 2 assets and liabilities include those priced using a matrix which is based on credit quality and average life, government and agency securities, restricted stock, some private bonds and investment funds, most investment-grade and high-yield corporate bonds, most asset-backed securities, most over-the-counter derivatives, and mortgage loans. Investment contracts that are measured at fair value through profit or loss are mostly included in the Level 2 category.

Level 3: Fair value measurements utilize one or more significant inputs that are not based on observable market inputs and include situations where there is little, if any, market activity for the asset or liability. The values of the majority of Level 3 securities were obtained from single broker quotes, internal pricing models, or external appraisers. Assets and liabilities utilizing Level 3 inputs generally include certain bonds, certain asset-backed securities, some private equities, investments in mutual and segregated funds where there are redemption restrictions, certain over-the-counter derivatives, investment properties and equity release mortgages.

9. Fair Value Measurement (cont'd)

The following presents the Company's assets and liabilities measured at fair value on a recurring basis by hierarchy level:

Assets measured at fair value	2021			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 6,075	\$ —	\$ —	\$ 6,075
Financial assets at fair value through profit or loss				
Bonds	—	103,713	100	103,813
Mortgage loans	—	—	2,609	2,609
Stocks	11,577	12	1,680	13,269
Total financial assets at fair value through profit or loss	11,577	103,725	4,389	119,691
Available-for-sale financial assets				
Bonds	—	12,123	—	12,123
Stocks	4	1	204	209
Total available-for-sale financial assets	4	12,124	204	12,332
Investment properties	—	—	7,763	7,763
Funds held by ceding insurers	336	14,663	—	14,999
Derivatives ⁽¹⁾	1	966	—	967
Reinsurance assets	—	106	—	106
Other assets:				
Trading account assets	307	833	531	1,671
Other ⁽²⁾	76	93	—	169
Total assets measured at fair value	\$ 18,376	\$ 132,510	\$ 12,887	\$ 163,773
Liabilities measured at fair value				
Derivatives ⁽³⁾	\$ 3	\$ 1,027	\$ —	\$ 1,030
Investment contract liabilities	—	12,455	—	12,455
Other liabilities	76	93	—	169
Total liabilities measured at fair value	\$ 79	\$ 13,575	\$ —	\$ 13,654

⁽¹⁾ Excludes collateral received from counterparties of \$317.

⁽²⁾ Includes collateral received under securities lending arrangements.

⁽³⁾ Excludes collateral pledged to counterparties of \$370.

There were no transfers of the Company's assets and liabilities between Level 1 and Level 2 in the year.

9. Fair Value Measurement (cont'd)

Assets measured at fair value	2020			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 7,946	\$ —	\$ —	\$ 7,946
Financial assets at fair value through profit or loss				
Bonds	—	102,819	73	102,892
Mortgage loans	—	—	2,020	2,020
Stocks	8,773	188	1,374	10,335
Total financial assets at fair value through profit or loss	8,773	103,007	3,467	115,247
Available-for-sale financial assets				
Bonds	—	11,352	—	11,352
Stocks	3	1	16	20
Total available-for-sale financial assets	3	11,353	16	11,372
Investment properties	—	—	6,270	6,270
Funds held by ceding insurers	245	15,943	—	16,188
Derivatives ⁽¹⁾	1	828	—	829
Reinsurance assets	—	130	—	130
Other assets:				
Trading account assets	302	353	58	713
Other ⁽²⁾	79	188	—	267
Total assets measured at fair value	\$ 17,349	\$ 131,802	\$ 9,811	\$ 158,962
Liabilities measured at fair value				
Derivatives ⁽³⁾	\$ 5	\$ 1,216	\$ —	\$ 1,221
Investment contract liabilities	—	9,145	—	9,145
Other liabilities	79	188	—	267
Total liabilities measured at fair value	\$ 84	\$ 10,549	\$ —	\$ 10,633

⁽¹⁾ Excludes collateral received from counterparties of \$210.

⁽²⁾ Includes collateral received under securities lending arrangements.

⁽³⁾ Excludes collateral pledged to counterparties of \$442.

There were no transfers of the Company's assets and liabilities between Level 1 and Level 2 in the year.

9. Fair Value Measurement (cont'd)

The following presents additional information about assets and liabilities measured at fair value on a recurring basis which the Company classifies as Level 3 in the fair value hierarchy:

	2021						
	Fair value through profit or loss bonds	Fair value through profit or loss mortgage loans	Fair value through profit or loss stocks ⁽⁴⁾	Available for-sale stocks	Investment properties	Trading account assets	Total Level 3 assets
Balance, beginning of year	\$ 73	\$ 2,020	\$ 1,374	\$ 16	\$ 6,270	\$ 58	\$ 9,811
Total gains (losses)							
Included in net earnings	4	(121)	164	7	615	16	685
Included in other comprehensive income ⁽¹⁾⁽²⁾	(5)	(21)	—	117	(52)	—	39
Purchases	28	—	798	31	970	597	2,424
Issues	—	896	—	—	—	—	896
Sales	—	—	(199)	(7)	(40)	(140)	(386)
Settlements	—	(165)	—	—	—	—	(165)
Transfers into Level 3 ⁽²⁾⁽³⁾	—	—	—	40	—	—	40
Transfers out of Level 3 ⁽³⁾	—	—	(457)	—	—	—	(457)
Balance, end of year	\$ 100	\$ 2,609	\$ 1,680	\$ 204	\$ 7,763	\$ 531	\$ 12,887
Total gains (losses) for the year included in net investment income	\$ 4	\$ (121)	\$ 164	\$ 7	\$ 615	\$ 16	\$ 685
Change in unrealized gains (losses) for the year included in earnings for assets held at December 31, 2021	\$ 4	\$ (115)	\$ 161	\$ —	\$ 621	\$ 16	\$ 687

⁽¹⁾ Amount of other comprehensive income for fair value through profit or loss bonds, mortgage loans and investment properties represents the unrealized gains (losses) on foreign exchange.

⁽²⁾ During 2021, certain stocks previously classified as available-for-sale, at cost were remeasured at a fair value of \$147, are now classified as available-for-sale, and have been transferred into Level 3 as reliable measure of fair value was identified during the period. The carrying value of \$40 was transferred into Level 3 and the difference between the carrying value and fair value of \$107 was recognized as an unrealized gain on available-for-sale assets with an income tax expense of \$15 in the Consolidated Statements of Comprehensive Income.

⁽³⁾ Transfers into Level 3 are due primarily to decreased observability of inputs in valuation methodologies or the placement of redemption restrictions on investments in mutual and segregated funds. Transfers out of Level 3 are due primarily to increased observability of inputs in valuation methodologies as evidenced by corroboration of market prices with multiple pricing vendors or the lifting of redemption restrictions on investments in mutual and segregated funds.

⁽⁴⁾ Includes investments in mutual and segregated funds where there are redemption restrictions. The fair value is based on observable, quoted prices.

9. Fair Value Measurement (cont'd)

	2020						
	Fair value through profit or loss bonds	Fair value through profit or loss mortgage loans	Fair value through profit or loss stocks ⁽⁴⁾	Available for-sale stocks	Investment properties	Trading account assets	Total Level 3 assets
Balance, beginning of year	\$ 67	\$ 1,314	\$ 678	\$ 4	\$ 5,887	\$ —	\$ 7,950
Total gains (losses)							
Included in net earnings	2	156	16	—	(74)	—	100
Included in other comprehensive income ⁽¹⁾	4	15	—	1	21	—	41
Purchases	—	—	406	11	481	—	898
Issues	—	622	—	—	—	—	622
Sales	—	—	(83)	—	(73)	—	(156)
Settlements	—	(87)	—	—	—	—	(87)
Transferred from owner occupied properties ⁽²⁾	—	—	—	—	28	—	28
Transfers into Level 3 ⁽³⁾	—	—	357	—	—	58	415
Transfers out of Level 3 ⁽³⁾	—	—	—	—	—	—	—
Balance, end of year	\$ 73	\$ 2,020	\$ 1,374	\$ 16	\$ 6,270	\$ 58	\$ 9,811
Total gains (losses) for the year included in net investment income	\$ 2	\$ 156	\$ 16	\$ —	\$ (74)	\$ —	\$ 100
Change in unrealized gains (losses) for the year included in earnings for assets held at December 31, 2020	\$ 2	\$ 145	\$ 17	\$ —	\$ (73)	\$ —	\$ 91

(1) Amount of other comprehensive income for fair value through profit or loss bonds, mortgage loans and investment properties represents the unrealized gains (losses) on foreign exchange.

(2) As a result of the sale of Irish Progressive Services International Limited (IPSI), a property with a fair value of \$28 was reclassified from owner occupied properties to investment properties. The reclassification resulted in the recognition of revaluation surplus on the transfer to investment properties of \$11 and income tax expense of \$(1) in the Consolidated Statements of Comprehensive Income.

(3) Transfers into Level 3 are due primarily to decreased observability of inputs in valuation methodologies or the placement of redemption restrictions on investments in mutual and segregated funds. Transfers out of Level 3 are due primarily to increased observability of inputs in valuation methodologies as evidenced by corroboration of market prices with multiple pricing vendors or the lifting of redemption restrictions on investment in mutual and segregated funds.

(4) Includes investments in mutual and segregated funds where there are redemption restrictions. The fair value is based on observable, quoted prices.

On March 20, 2020, Canada Life temporarily suspended contributions to and transfers into, as well as redemptions and transfers out of, its Canadian real estate investment funds as the COVID-19 pandemic impacted the global property market and made it difficult to value the properties with the same degree of certainty as usual. As a result of these restrictions, the Company's investment in these funds with a fair value of \$357 was transferred on March 20, 2020 from Level 1 to Level 3.

On January 11, 2021, Canada Life lifted the temporary suspension on contributions to and transfers into its Canadian real estate investment funds, and on April 19, 2021, the temporary suspension on redemptions and transfers out was fully lifted, as confidence over the valuation of the underlying properties returned as a result of increased market activity. As a result of the lifting of these temporary suspensions, the Company's investment in these funds with a fair value of \$457 was transferred on April 19, 2021 from Level 3 to Level 1.

9. Fair Value Measurement (cont'd)

The following sets out information about significant unobservable inputs used at year-end in measuring assets categorized as Level 3 in the fair value hierarchy:

Type of asset	Valuation approach	Significant unobservable input	Input value	Inter-relationship between key unobservable inputs and fair value measurement
Investment properties	Investment property valuations are generally determined using property valuation models based on expected capitalization rates and models that discount expected future net cash flows. The determination of the fair value of investment property requires the use of estimates such as future cash flows (such as future leasing assumptions, rental rates, capital and operating expenditures) and discount, reversionary and overall capitalization rates applicable to the asset based on current market rates.	Discount rate Reversionary rate Vacancy rate	Range of 3.3% - 12.4% Range of 3.5% - 7.0% Weighted average of 2.5%	A decrease in the discount rate would result in an increase in fair value. An increase in the discount rate would result in a decrease in fair value. A decrease in the reversionary rate would result in an increase in fair value. An increase in the reversionary rate would result in a decrease in fair value. A decrease in the expected vacancy rate would generally result in an increase in fair value. An increase in the expected vacancy rate would generally result in a decrease in fair value.
Mortgage loans - equity release mortgages (fair value through profit or loss)	The valuation approach for equity release mortgages is to use an internal valuation model to determine the projected asset cash flows, including the stochastically calculated cost of the no negative equity guarantee for each individual loan, to aggregate these across all loans and to discount those cash flows back to the valuation date. The projection is done monthly until expected redemption of the loan either voluntarily or on the death/entering into long term care of the loanholders.	Discount rate	Range of 3.5% - 4.7%	A decrease in the discount rate would result in an increase in fair value. An increase in the discount rate would result in a decrease in fair value.

9. Fair Value Measurement (cont'd)

The following presents the Company's assets and liabilities disclosed at fair value on a recurring basis by hierarchy level:

	2021				
	Level 1	Level 2	Level 3	Other assets/ liabilities not held at fair value	Total
Assets disclosed at fair value					
Loans and receivables financial assets					
Bonds	\$ —	\$ 26,668	\$ 49	\$ —	\$ 26,717
Mortgage loans	—	27,049	—	—	27,049
Loans to policyholders	—	8,319	—	—	8,319
Total loans and receivables financial assets	—	62,036	49	—	62,085
Available-for-sale financial assets					
Stocks ⁽¹⁾	—	—	—	124	124
Other stocks ⁽²⁾	418	—	—	215	633
Funds held by ceding insurers	—	—	—	126	126
Total assets disclosed at fair value	\$ 418	\$ 62,036	\$ 49	\$ 465	\$ 62,968
Liabilities and equity disclosed at fair value					
Debentures and other debt instruments	\$ 186	\$ 9,569	\$ —	\$ —	\$ 9,755
Limited recourse capital notes	—	1,475	—	—	1,475
Total liabilities and equity disclosed at fair value	\$ 186	\$ 11,044	\$ —	\$ —	\$ 11,230

⁽¹⁾ Fair value of certain stocks available for sale cannot be reliably measured, therefore, these investments are recorded at cost.

⁽²⁾ Other stocks include the Company's investment in IGM.

9. Fair Value Measurement (cont'd)

	2020				
	Level 1	Level 2	Level 3	Other assets/ liabilities not held at fair value	Total
Assets disclosed at fair value					
Loans and receivables financial assets					
Bonds	\$ —	\$ 26,488	\$ 57	\$ —	\$ 26,545
Mortgage loans	—	27,613	—	—	27,613
Loans to policyholders	—	8,387	—	—	8,387
Total loans and receivables financial assets	—	62,488	57	—	62,545
Available-for-sale financial assets					
Stocks ⁽¹⁾	—	—	—	163	163
Other stocks ⁽²⁾	317	—	—	128	445
Funds held by ceding insurers	—	—	—	137	137
Total assets disclosed at fair value	\$ 317	\$ 62,488	\$ 57	\$ 428	\$ 63,290
Liabilities disclosed at fair value					
Debentures and other debt instruments	\$ 970	\$ 10,207	\$ —	\$ —	\$ 11,177
Total liabilities disclosed at fair value	\$ 970	\$ 10,207	\$ —	\$ —	\$ 11,177

⁽¹⁾ Fair value of certain stocks available for sale cannot be reliably measured, therefore, these investments are recorded at cost.

⁽²⁾ Other stocks include the Company's investment in IGM.

10. Goodwill and Intangible Assets

(a) Goodwill

(i) The carrying value and changes in the carrying value of goodwill are as follows:

	2021	2020
Cost		
Balance, beginning of year	\$ 11,283	\$ 7,693
Business acquisitions and dispositions	46	3,621
Purchase price allocation adjustments	161	—
Allocated to intangible assets	(1,181)	(12)
Changes in foreign exchange rates	(51)	(19)
Balance, end of year	\$ 10,258	\$ 11,283
Accumulated impairment		
Balance, beginning of year	\$ (1,177)	\$ (1,188)
Impairment	—	(16)
Changes in foreign exchange rates	—	27
Balance, end of year	\$ (1,177)	\$ (1,177)
Net carrying amount	\$ 9,081	\$ 10,106

10. Goodwill and Intangible Assets (cont'd)

- (ii) Within each of the three operating segments, goodwill has been assigned to cash generating unit groupings, representing the lowest level in which goodwill is monitored for internal reporting purposes. Lifeco does not allocate insignificant amounts of goodwill across multiple cash generating unit groupings. Goodwill is tested for impairment by comparing the carrying value of each cash generating unit grouping to which goodwill has been assigned to its recoverable amount as follows:

	2021	2020
Canada		
Group Customer	\$ 1,479	\$ 1,464
Individual Customer	2,549	2,553
Europe	2,379	2,395
United States		
Financial Services	2,674	3,694
Total	\$ 9,081	\$ 10,106

(b) Intangible Assets

Intangible assets of \$5,514 (\$4,285 as at December 31, 2020) include indefinite life and finite life intangible assets. The carrying value and changes in the carrying value of these intangible assets are as follows:

- (i) Indefinite life intangible assets:

	2021			
	Brands and trademarks	Customer contract related	Shareholders' portion of acquired future participating account profit	Total
Cost				
Balance, beginning of year	\$ 1,063	\$ 2,542	\$ 354	\$ 3,959
Changes in foreign exchange rates	(15)	—	—	(15)
Balance, end of year	\$ 1,048	\$ 2,542	\$ 354	\$ 3,944
Accumulated impairment				
Balance, beginning of year	\$ (133)	\$ (1,028)	\$ —	\$ (1,161)
Changes in foreign exchange rates	3	—	—	3
Balance, end of year	\$ (130)	\$ (1,028)	\$ —	\$ (1,158)
Net carrying amount	\$ 918	\$ 1,514	\$ 354	\$ 2,786

10. Goodwill and Intangible Assets (cont'd)

	2020			
	Brands and trademarks	Customer contract related	Shareholders' portion of acquired future participating account profit	Total
Cost				
Balance, beginning of year	\$ 972	\$ 2,562	\$ 354	\$ 3,888
Additions	92	30	—	122
Changes in foreign exchange rates	(1)	(50)	—	(51)
Balance, end of year	<u>\$ 1,063</u>	<u>\$ 2,542</u>	<u>\$ 354</u>	<u>\$ 3,959</u>
Accumulated impairment				
Balance, beginning of year	\$ (133)	\$ (1,051)	—	\$ (1,184)
Changes in foreign exchange rates	—	23	—	23
Balance, end of year	<u>\$ (133)</u>	<u>\$ (1,028)</u>	<u>\$ —</u>	<u>\$ (1,161)</u>
Net carrying amount	<u>\$ 930</u>	<u>\$ 1,514</u>	<u>\$ 354</u>	<u>\$ 2,798</u>

(ii) Indefinite life intangible assets have been assigned to cash generating unit groupings as follows:

	2021	2020
Canada		
Group Customer	\$ 354	\$ 354
Individual Customer	649	649
Europe	221	233
United States		
Asset Management	1,473	1,473
Financial Services	89	89
Total	<u>\$ 2,786</u>	<u>\$ 2,798</u>

10. Goodwill and Intangible Assets (cont'd)

(iii) Finite life intangible assets:

2021				
	Customer contract related	Distribution channels	Technology/ Software	Total
Amortization period range	7 - 30 years	30 years	3 - 10 years	
Amortization method	Straight-line	Straight-line	Straight-line	
Cost				
Balance, beginning of year	\$ 1,248	\$ 111	\$ 2,185	\$ 3,544
Additions	1,261	—	340	1,601
Changes in foreign exchange rates	(15)	(4)	(21)	(40)
Disposals	—	—	(16)	(16)
Balance, end of year	\$ 2,494	\$ 107	\$ 2,488	\$ 5,089
Accumulated amortization and impairment				
Balance, beginning of year	\$ (688)	\$ (65)	\$ (1,304)	\$ (2,057)
Changes in foreign exchange rates	4	3	11	18
Disposals	—	—	14	14
Amortization	(137)	(4)	(195)	(336)
Balance, end of year	\$ (821)	\$ (66)	\$ (1,474)	\$ (2,361)
Net carrying amount	\$ 1,673	\$ 41	\$ 1,014	\$ 2,728

2020				
	Customer contract related	Distribution channels	Technology/ Software	Total
Amortization period range	7 - 30 years	30 years	3 - 10 years	
Amortization method	Straight-line	Straight-line	Straight-line	
Cost				
Balance, beginning of year	\$ 1,031	\$ 108	\$ 1,885	\$ 3,024
Additions	214	—	341	555
Changes in foreign exchange rates	3	3	(6)	—
Disposals	—	—	(35)	(35)
Balance, end of year	\$ 1,248	\$ 111	\$ 2,185	\$ 3,544
Accumulated amortization and impairment				
Balance, beginning of year	\$ (630)	\$ (60)	\$ (1,159)	\$ (1,849)
Changes in foreign exchange rates	(3)	(1)	5	1
Disposals	—	—	29	29
Amortization	(55)	(4)	(179)	(238)
Balance, end of year	\$ (688)	\$ (65)	\$ (1,304)	\$ (2,057)
Net carrying amount	\$ 560	\$ 46	\$ 881	\$ 1,487

The weighted average remaining amortization period of the customer contract related and distribution channels are 15 and 12 years respectively (14 and 13 years respectively at December 31, 2020).

10. Goodwill and Intangible Assets (cont'd)

(c) Recoverable Amount

For the purposes of annual impairment testing, the Company allocates indefinite life intangibles to cash generating units and goodwill to cash generating unit groupings. Any potential impairment of indefinite life intangible assets is identified by comparing the recoverable amount of a cash generating unit to its carrying value. Any potential impairment of goodwill is identified by comparing the recoverable amount of a cash generating unit grouping to its carrying value.

Fair value is initially assessed with reference to valuation multiples of comparable publicly-traded financial institutions and precedent business acquisition transactions. The calculations utilize earnings and cash flow projections based on financial budgets approved by management. These valuation multiples may include price-to-earnings or price-to-book measures for life insurers and asset managers. This assessment may give regard to a variety of relevant considerations, including expected growth, risk and capital market conditions, among other factors. The valuation multiples used in assessing fair value represent Level 2 inputs.

In the fourth quarter of 2021, the Company conducted its annual impairment testing of intangible assets and goodwill based on September 30, 2021 asset balances. It was determined that the recoverable amounts of cash generating units for intangible assets and cash generating unit groupings for goodwill were in excess of their carrying values and there was no evidence of impairment.

Any reasonable changes in assumptions and estimates used in determining recoverable amounts of cash generating units or cash generating unit groupings is unlikely to cause carrying values to exceed recoverable amounts.

11. Owner Occupied Properties and Fixed Assets

The carrying value of owner occupied properties and the changes in the carrying value of owner occupied properties are as follows:

	2021	2020
Carrying value, beginning of year	\$ 871	\$ 842
Less: accumulated depreciation/impairments	(130)	(115)
Net carrying value, beginning of year	741	727
Additions	21	42
Disposals	(1)	—
Transferred to investment properties ⁽¹⁾	—	(17)
Depreciation	(16)	(15)
Foreign exchange	(9)	4
Net carrying value, end of year	\$ 736	\$ 741

⁽¹⁾ As a result of the sale of IPSI in 2020, a property with a carrying value of \$17 was reclassified from owner occupied properties to investment properties.

The net carrying value of fixed assets is \$422 at December 31, 2021 (\$426 at December 31, 2020).

The following provides details of the net carrying value of owner occupied properties and fixed assets by operating segment:

	2021	2020
Canada	\$ 652	\$ 640
United States	317	321
Europe	188	205
Capital and Risk Solutions	1	1
Total	\$ 1,158	\$ 1,167

There are no restrictions on the title of the owner occupied properties and fixed assets, nor are they pledged as security for debt.

12. Other Assets

	2021	2020
Deferred acquisition costs	\$ 615	\$ 618
Right-of-use assets	389	437
Trading account assets ⁽¹⁾	1,671	713
Finance leases receivable	433	404
Defined benefit pension plan assets (note 23)	363	240
Prepaid expenses	123	115
Miscellaneous other assets	928	820
Total	\$ 4,522	\$ 3,347

⁽¹⁾ Includes bonds of \$1,322 and stocks of \$349 at December 31, 2021 (bonds of \$386 and stocks of \$327 at December 31, 2020).

12. Other Assets (cont'd)

Total other assets of \$2,752 (\$1,678 at December 31, 2020) are expected to be realized within 12 months from the reporting date. This amount excludes deferred acquisition costs, the changes in which are noted below.

Deferred acquisition costs

	2021	2020
Balance, beginning of year	\$ 618	\$ 595
Additions	113	93
Amortization	(55)	(55)
Changes in foreign exchange rates	(34)	26
Disposals	(27)	(41)
Balance, end of year	<u>\$ 615</u>	<u>\$ 618</u>

Right-of-use assets

	2021		
	Property	Equipment	Total
Cost, beginning of year	\$ 568	\$ 8	\$ 576
Additions	21	5	26
Modifications	(10)	(1)	(11)
Changes in foreign exchange rates	(1)	—	(1)
Cost, end of year	<u>\$ 578</u>	<u>\$ 12</u>	<u>\$ 590</u>
Accumulated amortization, beginning of year	\$ (134)	\$ (5)	\$ (139)
Amortization	(66)	(2)	(68)
Modifications	7	—	7
Changes in foreign exchange rates	(1)	—	(1)
Accumulated amortization, end of year	<u>\$ (194)</u>	<u>\$ (7)</u>	<u>\$ (201)</u>
Carrying amount, end of year	<u>\$ 384</u>	<u>\$ 5</u>	<u>\$ 389</u>

	2020		
	Property	Equipment	Total
Cost, beginning of year	\$ 530	\$ 7	\$ 537
Additions	47	1	48
Modifications	(5)	—	(5)
Changes in foreign exchange rates	(4)	—	(4)
Cost, end of year	<u>\$ 568</u>	<u>\$ 8</u>	<u>\$ 576</u>
Accumulated amortization, beginning of year	\$ (69)	\$ (2)	\$ (71)
Amortization	(68)	(3)	(71)
Changes in foreign exchange rates	3	—	3
Accumulated amortization, end of year	<u>\$ (134)</u>	<u>\$ (5)</u>	<u>\$ (139)</u>
Carrying amount, end of year	<u>\$ 434</u>	<u>\$ 3</u>	<u>\$ 437</u>

12. Other Assets (cont'd)

Finance leases receivable

The Company has a finance lease on one property in Canada which has been leased for a 25-year term. The Company has six finance leases on properties in Europe. These properties have been leased for terms ranging between 27 and 40 years.

The terms to maturity of the lease payments receivable are as follows:

	2021	2020
One year or less	\$ 30	\$ 30
Over one year to two years	31	30
Over two years to three years	32	30
Over three years to four years	33	30
Over four years to five years	33	30
Over five years	717	662
Total undiscounted lease payments	876	812
Less: unearned finance lease income	443	408
Total finance leases receivable	\$ 433	\$ 404
Finance income on the net investment in the leases	\$ 27	\$ 26

13. Insurance and Investment Contract Liabilities

(a) Insurance and investment contract liabilities

	2021		
	Gross liability	Reinsurance assets	Net
Insurance contract liabilities	\$ 208,378	\$ 21,032	\$ 187,346
Investment contract liabilities	12,455	106	12,349
Total	\$ 220,833	\$ 21,138	\$ 199,695
	2020		
	Gross liability	Reinsurance assets	Net
Insurance contract liabilities	\$ 208,902	\$ 21,991	\$ 186,911
Investment contract liabilities	9,145	130	9,015
Total	\$ 218,047	\$ 22,121	\$ 195,926

13. Insurance and Investment Contract Liabilities (cont'd)

(b) Composition of insurance and investment contract liabilities and related supporting assets

(i) The composition of insurance and investment contract liabilities is as follows:

		2021		
		Gross liability	Reinsurance assets	Net
Participating				
Canada	\$	50,049	\$ (115)	\$ 50,164
United States		10,694	13	10,681
Europe		141	—	141
Capital and Risk Solutions		886	—	886
Non-Participating				
Canada		34,780	207	34,573
United States		63,938	14,708	49,230
Europe		47,215	6,197	41,018
Capital and Risk Solutions		13,130	128	13,002
Total		\$ 220,833	\$ 21,138	\$ 199,695

		2020		
		Gross liability	Reinsurance assets	Net
Participating				
Canada	\$	46,107	\$ (199)	\$ 46,306
United States		11,090	13	11,077
Europe		155	—	155
Capital and Risk Solutions		912	—	912
Non-Participating				
Canada		35,449	638	34,811
United States		65,703	15,908	49,795
Europe		48,088	5,622	42,466
Capital and Risk Solutions		10,543	139	10,404
Total		\$ 218,047	\$ 22,121	\$ 195,926

13. Insurance and Investment Contract Liabilities (cont'd)

(ii) The composition of the assets supporting liabilities and equity is as follows:

		2021										
		Bonds	Mortgage loans	Stocks	Investment properties	Other	Total					
Carrying value												
Participating liabilities												
Canada	\$	21,370	\$	11,166	\$	8,522	\$	4,013	\$	4,978	\$	50,049
United States		4,876		607		76		—		5,135		10,694
Europe		66		—		67		8		—		141
Capital and Risk Solutions		666		8		—		—		212		886
Non-participating liabilities												
Canada		23,620		4,661		3,116		579		2,804		34,780
United States		32,302		4,641		211		—		26,784		63,938
Europe		33,208		5,891		391		2,743		4,982		47,215
Capital and Risk Solutions		6,394		80		—		—		6,656		13,130
Other		7,257		1,202		873		157		369,683		379,172
Total equity		10,853		596		927		263		17,844		30,483
Total carrying value	\$	140,612	\$	28,852	\$	14,183	\$	7,763	\$	439,078	\$	630,488
Fair value	\$	142,653	\$	29,658	\$	14,235	\$	7,763	\$	439,078	\$	633,387

		2020										
		Bonds	Mortgage loans	Stocks	Investment properties	Other	Total					
Carrying value												
Participating liabilities												
Canada	\$	21,803	\$	10,545	\$	6,152	\$	2,983	\$	4,624	\$	46,107
United States		5,193		593		13		—		5,291		11,090
Europe		84		—		62		9		—		155
Capital and Risk Solutions		688		12		—		—		212		912
Non-participating liabilities												
Canada		23,898		4,498		2,789		360		3,904		35,449
United States		31,631		4,586		46		—		29,440		65,703
Europe		34,941		5,746		332		2,536		4,533		48,088
Capital and Risk Solutions		2,365		52		—		—		8,126		10,543
Other		5,367		1,135		754		141		348,031		355,428
Total equity		11,622		636		852		241		13,664		27,015
Total carrying value	\$	137,592	\$	27,803	\$	11,000	\$	6,270	\$	417,825	\$	600,490
Fair value	\$	140,789	\$	29,633	\$	10,963	\$	6,270	\$	417,825	\$	605,480

13. Insurance and Investment Contract Liabilities (cont'd)

Cash flows of assets supporting insurance and investment contract liabilities are matched within reasonable limits. Changes in the fair values of these assets are largely offset by changes in the fair value of insurance and investment contract liabilities.

Changes in the fair values of assets backing capital and surplus, less related income taxes, would result in a corresponding change in surplus over time in accordance with investment accounting policies.

(c) Change in insurance contract liabilities

The change in insurance contract liabilities during the year was the result of the following business activities and changes in actuarial estimates:

	2021			
	Participating			
	Gross liability	Reinsurance assets	Net	
Balance, beginning of year	\$ 58,264	\$ (186)	\$ 58,450	
Impact of new business	(78)	—	(78)	
Normal change in force	3,819	27	3,792	
Management action and changes in assumptions	(223)	57	(280)	
Impact of foreign exchange rate changes	(12)	—	(12)	
Balance, end of year	\$ 61,770	\$ (102)	\$ 61,872	
	Non-participating			
	Gross liability	Reinsurance assets	Net	Total Net
Balance, beginning of year	\$ 150,638	\$ 22,177	\$ 128,461	\$ 186,911
Impact of new business	10,559	84	10,475	10,397
Normal change in force	(12,920)	(1,472)	(11,448)	(7,656)
Management action and changes in assumptions	(673)	(540)	(133)	(413)
Business movement from/to external parties	(613)	(37)	(576)	(576)
Ark Life acquisition (note 3)	1,257	1,238	19	19
Impact of foreign exchange rate changes	(1,640)	(316)	(1,324)	(1,336)
Balance, end of year	\$ 146,608	\$ 21,134	\$ 125,474	\$ 187,346

13. Insurance and Investment Contract Liabilities (cont'd)

	2020			
	Participating			
	Gross liability	Reinsurance assets	Net	
Balance, beginning of year	\$ 54,619	\$ (235)	\$ 54,854	
Impact of new business	(7)	32	(39)	
Normal change in force	3,883	9	3,874	
Management action and changes in assumptions	55	8	47	
Impact of foreign exchange rate changes	(286)	—	(286)	
Balance, end of year	<u>\$ 58,264</u>	<u>\$ (186)</u>	<u>\$ 58,450</u>	
	Non-participating			
	Gross liability	Reinsurance assets	Net	Total Net
Balance, beginning of year	\$ 119,902	\$ 20,815	\$ 99,087	\$ 153,941
Impact of new business	7,028	706	6,322	6,283
Normal change in force	1,296	750	546	4,420
Management action and changes in assumptions	161	109	52	99
Business movement from/to external parties	(48)	—	(48)	(48)
MassMutual acquisition (note 3)	22,316	—	22,316	22,316
Impact of foreign exchange rate changes	(17)	(203)	186	(100)
Balance, end of year	<u>\$ 150,638</u>	<u>\$ 22,177</u>	<u>\$ 128,461</u>	<u>\$ 186,911</u>

Under IFRS, movement in the fair value of the supporting assets is a major factor in the movement of insurance contract liabilities. Changes in the fair value of assets are largely offset by corresponding changes in the fair value of liabilities. The change in the value of the insurance contract liabilities associated with the change in the value of the supporting assets is included in the normal change in force above.

Effective October 15, 2021, the Canadian Actuarial Standards Board published revised standards for the valuation of insurance contract liabilities. The revised standards include decreases to ultimate reinvestment rates, revised calibration criteria for stochastic risk-free interest rates and an increase to the maximum net credit spread on reinvestment over the long term.

In 2021, the major contributor to the increase in net insurance contract liabilities was the impact of new business of \$10,397. This was partially offset by decreases due to normal change in the in force business of \$7,656 and foreign exchange rate changes of \$1,336.

Net non-participating insurance contract liabilities decreased by \$133 due to management actions and changes in assumptions including a \$219 decrease in Europe and \$7 decrease in the U.S., partially offset by increases of \$75 in Canada and \$18 in Capital and Risk Solutions.

The decrease in Europe was primarily due to updated economic and asset related assumptions of \$165, updated longevity assumptions of \$29, and updated policyholder behaviour assumptions of \$22.

The decrease in the U.S. was primarily due to updated economic assumptions, which includes the net impact of the new standards, of \$5.

13. Insurance and Investment Contract Liabilities (cont'd)

The increase in Canada was primarily due to updated policyholder behaviour assumptions of \$172, mortality updates of \$44, and updated morbidity assumptions of \$37. This was partially offset by decreases due to updated economic and asset related assumptions, which includes the net impact of the new standards, of \$146, and modeling refinements of \$29.

The increase in Capital and Risk Solutions was primarily due to updated expense assumptions of \$11, and updated life mortality and longevity assumptions of \$6.

Net participating insurance contract liabilities decreased by \$280 in 2021 due to management actions and changes in assumptions.

In 2020, the major contributors to the increase in net insurance contract liabilities was the MassMutual acquisition of \$22,316, the impact of new business of \$6,283, and the normal change in the in force business of \$4,420.

Net non-participating insurance contract liabilities increased by \$52 due to management actions and changes in assumptions including a \$377 increase in Canada, partially offset by decreases of \$212 in Europe, \$59 in Capital & Risk Solutions, and \$54 in the United States.

The increase in Canada was primarily due to updated policyholder behaviour assumptions of \$269, updated morbidity assumptions of \$140, of which \$114 is offset by an increase in other assets, and updated economic and asset related assumptions of \$98. This was partially offset by decreases due to updated life mortality assumptions of \$129.

The decrease in Europe was primarily due to updated longevity assumptions of \$138, modeling refinements of \$28, updated morbidity assumptions of \$24, updated policyholder behaviour assumptions of \$19, and updated economic and asset related assumptions of \$10. This was partially offset by an increase due to updated expense and tax assumptions of \$6.

The decrease in Capital and Risk Solutions was primarily due to updated longevity assumptions of \$135, updated economic assumptions of \$41, and modeling refinements of \$37. This was partially offset by increases due to updated life mortality assumptions of \$107, updated expense and tax assumptions of \$28, and updated policyholder behaviour assumptions of \$14.

The decrease in the United States was primarily due to updated economic assumptions of \$50.

Net participating insurance contract liabilities increased by \$47 in 2020 due to management actions and changes in assumptions. The increase was primarily due to updated economic assumptions of \$2,358, and updated policyholder behaviour assumptions of \$34. This was partially offset by decreases due to provisions for future policyholder dividends of \$1,899, updated expense and tax assumptions of \$446, and modeling refinements of \$5.

13. Insurance and Investment Contract Liabilities (cont'd)

(d) Change in investment contract liabilities measured at fair value

	2021			2020		
	Gross liability	Reinsurance assets	Net	Gross liability	Reinsurance assets	Net
Balance, beginning of year	\$ 9,145	\$ 130	\$ 9,015	\$ 1,656	\$ 127	\$ 1,529
Normal change in force business	3,497	38	3,459	2,489	(20)	2,509
Investment experience	(242)	(62)	(180)	147	26	121
Management action and changes in assumptions	—	—	—	(4)	—	(4)
MassMutual acquisition (note 3)	—	—	—	4,984	—	4,984
Ark Life acquisition (note 3)	43	—	43	—	—	—
Impact of foreign exchange rate changes	12	—	12	(127)	(3)	(124)
Balance, end of year	\$ 12,455	\$ 106	\$ 12,349	\$ 9,145	\$ 130	\$ 9,015

The carrying value of investment contract liabilities approximates their fair value.

(e) Gross premiums written and gross policyholder benefits

(i) Premium Income

	2021	2020
Direct premiums	\$ 26,219	\$ 28,102
Assumed reinsurance premiums	31,178	19,652
Total	\$ 57,397	\$ 47,754

(ii) Policyholder Benefits

	2021	2020
Direct	\$ 20,903	\$ 19,538
Assumed reinsurance	28,452	20,067
Total	\$ 49,355	\$ 39,605

(f) Actuarial Assumptions

In the computation of insurance contract liabilities, valuation assumptions have been made regarding rates of mortality/morbidity, investment returns, levels of operating expenses, rates of policy termination and rates of utilization of elective policy options or provisions. The valuation assumptions use best estimates of future experience together with a margin for adverse deviation. These margins are necessary to provide for possibilities of misestimation and/or future deterioration in the best estimate assumptions and provide reasonable assurance that insurance contract liabilities cover a range of possible outcomes. Margins are reviewed periodically for continued appropriateness.

13. Insurance and Investment Contract Liabilities (cont'd)

The methods for arriving at these valuation assumptions are outlined below:

Mortality

A life insurance mortality study is carried out annually for each major block of insurance business. The results of each study are used to update the Company's experience valuation mortality tables for that business. When there is insufficient data, use is made of the latest industry experience to derive an appropriate valuation mortality assumption. Improvement scales for life insurance and annuitant mortality are updated periodically based on population and industry studies, product specific considerations, as well as professional guidance. In addition, appropriate provisions have been made for future mortality deterioration on term insurance.

Annuitant mortality is also studied regularly and the results are used to modify established annuitant mortality tables.

Morbidity

The Company uses industry developed experience tables modified to reflect emerging Company experience. Both claim incidence and termination are monitored regularly and emerging experience is factored into the current valuation.

Property and casualty reinsurance

Insurance contract liabilities for property and casualty reinsurance written by entities within the Capital and Risk Solutions operating segment are determined using accepted actuarial practices for property and casualty insurers in Canada. The insurance contract liabilities are based on cession statements provided by ceding companies. In addition, insurance contract liabilities also include an amount for incurred but not reported losses which may differ significantly from the ultimate loss development. The estimates and underlying methodology are continually reviewed and updated, and adjustments to estimates are reflected in earnings. Capital and Risk Solutions analyzes the emergence of claims experience against expected assumptions for each reinsurance contract separately and at the portfolio level. If necessary, a more in-depth analysis is undertaken of the cedant experience.

Investment returns

The assets which correspond to the different liability categories are segmented. For each segment, projected cash flows from the current assets and liabilities are used in the Canadian Asset Liability Method to determine insurance contract liabilities. Cash flows from assets are reduced to provide for asset default losses. Testing under several interest rate and equity scenarios (including increasing and decreasing rates) is done to provide for reinvestment risk (note 8(c)).

Expenses

Contractual policy expenses (e.g. sales commissions) and tax expenses are reflected on a best estimate basis. Expense studies for indirect operating expenses are updated regularly to determine an appropriate estimate of future operating expenses for the liability type being valued. An inflation assumption is incorporated in the estimate of future operating expenses consistent with the interest rate scenarios projected under the Canadian Asset Liability Method as inflation is assumed to be correlated with new money interest rates.

13. Insurance and Investment Contract Liabilities (cont'd)

Policy termination

Studies to determine rates of policy termination are updated regularly to form the basis of this estimate. Industry data is also available and is useful where the Company has no experience with specific types of policies or its exposure is limited. The Company's most significant exposures are in respect of the T-100 and Level Cost of Insurance Universal Life products in Canada and policy renewal rates at the end of term for renewable term policies in Canada and Capital and Risk Solutions. Industry experience has guided the Company's assumptions for these products as the Company's own experience is very limited.

Utilization of elective policy options

There are a wide range of elective options embedded in the policies issued by the Company. Examples include term renewals, conversion to whole life insurance (term insurance), settlement annuity purchase at guaranteed rates (deposit annuities) and guarantee re-sets (segregated fund maturity guarantees). The assumed rates of utilization are based on Company or industry experience when it exists and when not on judgment considering incentives to utilize the option. Generally, whenever it is clearly in the best interests of an informed policyholder to utilize an option, then it is assumed to be elected.

Policyholder dividends and adjustable policy features

Future policyholder dividends and other adjustable policy features are included in the determination of insurance contract liabilities with the assumption that policyholder dividends or adjustable benefits will change in the future in response to the relevant experience. The dividend and policy adjustments are determined consistent with policyholders' reasonable expectations, such expectations being influenced by the participating policyholder dividend policies and/or policyholder communications, marketing material and past practice. It is the Company's expectation that changes will occur in policyholder dividend scales or adjustable benefits for participating or adjustable business respectively, corresponding to changes in the best estimate assumptions, resulting in an immaterial net change in insurance contract liabilities. Where underlying guarantees may limit the ability to pass all of this experience back to the policyholder, the impact of this non-adjustability on shareholders' earnings is reflected in the changes in best estimate assumptions above.

(g) Risk Management

(i) Insurance risk

Insurance risk is the risk that the insured event occurs and that there are large deviations between expected and actual actuarial assumptions including mortality, persistency, longevity, morbidity, expense variations and investment returns.

The Company is in the business of accepting risk associated with insurance contract liabilities. The objective of the Company is to mitigate its exposure to risk arising from these contracts through product design, product and geographical diversification, the implementation of the Company's underwriting strategy guidelines, and through the use of reinsurance arrangements.

13. Insurance and Investment Contract Liabilities (cont'd)

The following provides information about the Company's insurance contract liabilities sensitivities to management's best estimate of the approximate impact as a result of changes in assumptions used to determine the Company's liability associated with these contracts.

	Increase (decrease) in net earnings	
	2021	2020
Mortality - 2% increase	\$ (276)	\$ (288)
Annuitant mortality - 2% decrease	\$ (722)	\$ (756)
Morbidity - 5% adverse change	\$ (262)	\$ (279)
Investment returns		
Parallel shift in yield curve		
1% increase	\$ —	\$ —
1% decrease	\$ —	\$ —
Change in interest rates		
1% increase	\$ 197	\$ 224
1% decrease	\$ (555)	\$ (920)
Change in publicly traded common stock values		
20% increase	\$ 21	\$ 28
10% increase	\$ 13	\$ 15
10% decrease	\$ (19)	\$ (51)
20% decrease	\$ (66)	\$ (208)
Change in other non-fixed income asset values		
10% increase	\$ 79	\$ 34
5% increase	\$ 39	\$ 6
5% decrease	\$ (30)	\$ (69)
10% decrease	\$ (112)	\$ (108)
Change in best estimate return assumptions for equities		
1% increase	\$ 567	\$ 556
1% decrease	\$ (649)	\$ (682)
Expenses - 5% increase	\$ (207)	\$ (165)
Policy termination and renewal - 10% adverse change	\$ (1,002)	\$ (1,017)

13. Insurance and Investment Contract Liabilities (cont'd)

Concentration risk may arise from geographic regions, accumulation of risks and market risk. The concentration of insurance risk before and after reinsurance by geographic region is described below.

	2021			2020		
	Gross liability	Reinsurance assets	Net	Gross liability	Reinsurance assets	Net
Canada	\$ 84,829	\$ 92	\$ 84,737	\$ 81,556	\$ 439	\$ 81,117
United States	74,632	14,721	59,911	76,793	15,921	60,872
Europe	47,356	6,197	41,159	48,243	5,622	42,621
Capital and Risk Solutions	14,016	128	13,888	11,455	139	11,316
Total	\$ 220,833	\$ 21,138	\$ 199,695	\$ 218,047	\$ 22,121	\$ 195,926

(ii) Reinsurance risk

Maximum limits per insured life benefit amount (which vary by line of business) are established for life and health insurance, and reinsurance is purchased for amounts in excess of those limits.

Reinsurance costs and recoveries as defined by the reinsurance agreement are reflected in the valuation with these costs and recoveries being appropriately calibrated to the direct assumptions.

Reinsurance contracts do not relieve the Company from its obligations to policyholders. Failure of reinsurers to honour their obligations could result in losses to the Company. The Company evaluates the financial condition of its reinsurers to minimize its exposure to significant losses from reinsurer insolvencies.

Certain of the reinsurance contracts are on a funds withheld basis where the Company retains the assets supporting the reinsured insurance contract liabilities, thus minimizing the exposure to significant losses from reinsurer insolvency on those contracts.

14. Segregated Funds and Other Structured Entities

The Company offers segregated fund products in Canada, the U.S. and Europe that are referred to as segregated funds, separate accounts and unit-linked funds in the respective region. These funds are contracts issued by insurers to segregated fund policyholders where the benefit is directly linked to the performance of the investments, the risks or rewards of the fair value movements and net investment income is realized by the segregated fund policyholders. The segregated fund policyholders are required to select the segregated funds that hold a range of underlying investments. While the Company has legal title to the investments, there is a contractual obligation to pass along the investment results to the segregated fund policyholder and the Company segregates these investments from those of the Company.

In Canada and the U.S., the segregated fund and separate account assets are legally separated from the general assets of the Company under the terms of the policyholder agreement and cannot be used to settle obligations of the Company. In Europe, the assets of the funds are functionally and constructively segregated from those of the Company. As a result of the legal and constructive arrangements of these funds, the assets and liabilities of these funds are presented as line items within the Consolidated Balance Sheets titled investments on account of segregated fund policyholders and with an equal liability titled investment and insurance contracts on account of segregated fund policyholders.

14. *Segregated Funds and Other Structured Entities (cont'd)*

In circumstances where the segregated funds are invested in structured entities and are deemed to control the entity, the Company has presented the non-controlling ownership interest within the segregated funds for the risk of policyholders as equal and offsetting amounts in the assets and liabilities. The amounts presented within are \$3,125 at December 31, 2021 (\$1,490 at December 31, 2020).

Within the Consolidated Statements of Earnings, all segregated fund policyholders' income, including fair value changes and net investment income, is credited to the segregated fund policyholders and reflected in the assets and liabilities on account of segregated fund policyholders within the Consolidated Balance Sheets. As these amounts do not directly impact the revenues and expenses of the Company, these amounts are not included separately in the Consolidated Statements of Earnings.

Segregated Funds Guarantee Exposure

The Company offers retail segregated fund products, unitized with profits (UWP) products and variable annuity products that provide for certain guarantees that are tied to the market values of the investment funds. While these products are similar to mutual funds, there is a key difference from mutual funds as the segregated funds have certain guarantee features that protect the segregated fund policyholder from market declines in the underlying investments. These guarantees are the Company's primary exposure on these funds. The Company accounts for these guarantees within insurance and investment contract liabilities within the consolidated financial statements. In addition to the Company's exposure on the guarantees, the fees earned by the Company on these products are impacted by the market value of these funds.

In Canada, the Company offers retail segregated fund products through Canada Life. These products provide guaranteed minimum death benefits (GMDB) and guaranteed minimum accumulation on maturity benefits.

In the U.S., the Company offers group variable annuities with guaranteed minimum withdrawal benefits (GMWB) and group standalone GMDB products which mainly provide return of premium on death.

In Europe, the Company offers UWP products in Germany and unit-linked products with investment guarantees in Ireland. These products are similar to segregated fund products but include minimum credited interest rates and pooling of policyholders' funds.

The Company also offers a GMWB product in the U.S., and Germany, and previously offered GMWB product in Canada and Ireland. Certain GMWB products offered by the Company offer levels of death and maturity guarantees. At December 31, 2021, the amount of GMWB product in-force in Canada, the U.S., Ireland and Germany was \$3,316 (\$3,375 at December 31, 2020).

14. Segregated Funds and Other Structured Entities (cont'd)

The following presents further details of the investments, determined in accordance with the relevant statutory reporting requirements of each region of the Company's operations, on account of segregated fund policyholders:

(a) Investments on account of segregated fund policyholders

	2021	2020
Cash and cash equivalents	\$ 12,500	\$ 15,558
Bonds	60,647	65,338
Mortgage loans	2,377	2,686
Stocks and units in unit trusts	134,568	112,675
Mutual funds	133,916	127,577
Investment properties	12,776	12,430
	<u>356,784</u>	<u>336,264</u>
Accrued income	442	463
Other liabilities	(2,932)	(4,185)
Non-controlling mutual funds interest	3,125	1,490
Total ⁽¹⁾	<u><u>\$ 357,419</u></u>	<u><u>\$ 334,032</u></u>

⁽¹⁾ At December 31, 2021, \$83,754 of investments on account of segregated fund policyholders are reinsured by the Company on a modified coinsurance basis (\$84,785 at December 31, 2020). Included in this amount are \$301 of cash and cash equivalents, \$13,557 of bonds, \$26 of stocks and units in unit trusts, \$69,852 of mutual funds, \$78 of accrued income and \$(60) of other liabilities.

(b) Investment and insurance contracts on account of segregated fund policyholders

	2021	2020
Balance, beginning of year	\$ 334,032	\$ 231,022
Additions (deductions):		
Policyholder deposits	29,657	21,916
Net investment income	9,442	2,695
Net realized capital gains on investments	15,799	8,954
Net unrealized capital gains on investments	11,473	474
Unrealized gains (losses) due to changes in foreign exchange rates	(7,109)	3,920
Policyholder withdrawals	(40,324)	(20,371)
Business acquisitions ⁽¹⁾	2,844	84,785
Change in Segregated Fund investment in General Fund	(30)	51
Change in General Fund investment in Segregated Fund	(22)	234
Net transfer from General Fund	22	9
Non-controlling mutual funds interest	1,635	343
Total	<u>23,387</u>	<u>103,010</u>
Balance, end of year	<u><u>\$ 357,419</u></u>	<u><u>\$ 334,032</u></u>

⁽¹⁾ Investment and insurance contracts on account of segregated fund policyholders acquired through the acquisition of Ark Life in 2021 and the MassMutual acquisition in 2020 (note 3).

14. Segregated Funds and Other Structured Entities (cont'd)

(c) Investment income on account of segregated fund policyholders

	2021	2020
Net investment income	\$ 9,442	\$ 2,695
Net realized capital gains on investments	15,799	8,954
Net unrealized capital gains on investments	11,473	474
Unrealized gains (losses) due to changes in foreign exchange rates	(7,109)	3,920
Total	29,605	16,043
Change in investment and insurance contracts liability on account of segregated fund policyholders	29,605	16,043
Net	\$ —	\$ —

(d) Investments on account of segregated fund policyholders by fair value hierarchy level (note 9)

	2021			
	Level 1	Level 2	Level 3	Total
Investments on account of segregated fund policyholders ⁽¹⁾	\$ 249,543	\$ 96,575	\$ 13,822	\$ 359,940

⁽¹⁾ Excludes other liabilities, net of other assets, of \$2,521.

	2020			
	Level 1	Level 2	Level 3	Total
Investments on account of segregated fund policyholders ⁽¹⁾	\$ 224,831	\$ 98,424	\$ 13,556	\$ 336,811

⁽¹⁾ Excludes other liabilities, net of other assets, of \$2,779.

During 2021, certain foreign stock holdings valued at \$2,137 have been transferred from Level 2 to Level 1 (\$3,190 were transferred from Level 1 to Level 2 at December 31, 2020) primarily based on the Company's change in use of inputs in addition to quoted prices in active markets for certain foreign stock holdings at year end. Level 2 assets include those assets where fair value is not available from normal market pricing sources, where inputs are utilized in addition to quoted prices in active markets and where the Company does not have access to the underlying asset details within an investment fund.

As at December 31, 2021, \$5,394 (\$9,770 at December 31, 2020) of the segregated funds were invested in funds managed by related parties IG Wealth Management and Mackenzie Investments, members of the Power Corporation group of companies (note 25).

14. Segregated Funds and Other Structured Entities (cont'd)

The following presents additional information about the Company's investments on account of segregated fund policyholders for which the Company has utilized Level 3 inputs to determine fair value:

	2021	2020
Balance, beginning of year	\$ 13,556	\$ 13,988
Total gains included in segregated fund investment income	415	78
Purchases	333	167
Sales	(482)	(712)
Transfers into Level 3	5	35
Transfers out of Level 3	(5)	—
Balance, end of year	\$ 13,822	\$ 13,556

Transfers into Level 3 are due primarily to decreased observability of inputs in valuation methodologies. Transfers out of Level 3 are due primarily to increased observability of inputs in valuation methodologies as evidenced by corroboration of market prices with multiple pricing vendors.

In addition to the segregated funds, the Company has interests in a number of structured unconsolidated entities including mutual funds, open-ended investment companies, and unit trusts. These entities are created as investment strategies for its unit-holders based on the directive of each individual fund.

Some of these funds are managed by related parties of the Company and the Company receives management fees related to these services. Management fees can be variable due to performance of factors – such as markets or industries – in which the fund invests. Fee income derived in connection with the management of investment funds generally increases or decreases in direct relationship with changes of assets under management which is affected by prevailing market conditions, and the inflow and outflow of client assets.

Factors that could cause assets under management and fees to decrease include declines in equity markets, changes in fixed income markets, changes in interest rates and defaults, redemptions and other withdrawals, political and other economic risks, changing investment trends and relative investment performance. The risk is that fees may vary but expenses and recovery of initial expenses are relatively fixed, and market conditions may cause a shift in asset mix potentially resulting in a change in revenue.

During 2021, fee and other income earned by the Company resulting from the Company's interests in segregated funds and other structured entities was \$6,194 (\$5,034 during 2020).

Included within other assets (note 12) at December 31, 2021 is \$1,525 (\$557 at December 31, 2020) of investments by the Company in bonds and stocks of Putnam sponsored funds and \$146 (\$156 at December 31, 2020) of investments in stocks of sponsored unit trusts in Europe.

15. Debentures and Other Debt Instruments

	2021		2020	
	Carrying value	Fair value	Carrying value	Fair value
Short-term				
Commercial paper and other short-term debt instruments with interest rates from 0.172% to 0.203% (0.223% to 0.274% at December 31, 2020), unsecured	\$ 122	\$ 122	\$ 125	\$ 125
Revolving credit facility with interest equal to LIBOR plus 0.70% (U.S. \$50; U.S. \$165 at December 31, 2020), unsecured	64	64	210	210
Revolving credit facility with interest equal to LIBOR plus 1.00% (U.S. \$0; U.S. \$500 at December 31, 2020), unsecured	—	—	635	635
Total short-term	186	186	970	970
Capital:				
Long-term				
Lifeco				
6.74% Debentures due November 24, 2031, unsecured	195	270	195	287
6.67% Debentures due March 21, 2033, unsecured	394	549	394	575
5.998% Debentures due November 16, 2039, unsecured	342	478	342	504
3.337% Debentures due February 28, 2028, unsecured	498	533	498	566
2.981% Debentures due July 8, 2050, unsecured	493	479	493	514
2.50% Debentures due April 18, 2023, unsecured, (€500) ⁽¹⁾	720	743	774	825
2.379% Debentures due May 14, 2030, unsecured	597	602	597	637
1.75% Debentures due December 7, 2026, unsecured, (€500) ⁽¹⁾	717	768	771	857
	3,956	4,422	4,064	4,765
Canada Life				
6.40% Subordinated debentures due December 11, 2028, unsecured	100	125	100	135
Canada Life Capital Trust (CLCT)				
7.529% due June 30, 2052, unsecured, face value \$150	157	215	158	222
Great-West Lifeco Finance 2018, LP				
4.581% Senior notes due May 17, 2048, unsecured, (U.S. \$500)	629	820	628	867
4.047% Senior notes due May 17, 2028, unsecured, (U.S. \$300)	379	431	379	446
	1,008	1,251	1,007	1,313
Great-West Lifeco Finance (Delaware) LP				
4.15% Senior notes due June 3, 2047, unsecured, (U.S. \$700)	874	1,057	874	1,117
Great-West Lifeco U.S. Finance 2020, LP				
0.904% Senior notes due August 12, 2025, unsecured, (U.S. \$500)	632	617	631	638
Empower Finance 2020, LP				
3.075% Senior notes due September 17, 2051, unsecured, (U.S. \$700)	879	899	879	984
1.776% Senior notes due March 17, 2031, unsecured, (U.S. \$400)	506	490	505	521
1.357% Senior notes due September 17, 2027, unsecured, (U.S. \$400)	506	493	505	512
	1,891	1,882	1,889	2,017
Total long-term	8,618	9,569	8,723	10,207
Total	\$ 8,804	\$ 9,755	\$ 9,693	\$ 11,177

⁽¹⁾ Designated as hedges of the net investment in foreign operations.

15. *Debentures and Other Debt Instruments (cont'd)*

The Company made payments of U.S. \$400 on July 2, 2021 and U.S. \$100 on September 29, 2021 on its committed line of credit related to GWL&A's acquisition of the retirement services business from MassMutual on December 31, 2020. As at December 31, 2021 the balance drawn on this line of credit is nil (\$635 as at December 31, 2020).

Capital Trust Securities

CLCT, a trust established by Canada Life, had issued \$150 of Canada Life Capital Securities - Series B (CLiCS - Series B), the proceeds of which were used by CLCT to purchase Canada Life senior debentures in the amount of \$150.

Distributions and interest on the capital trust securities are classified as financing charges in the Consolidated Statements of Earnings (note 16). The fair value for capital trust securities is determined by the bid-ask price. Refer to note 8 for financial instrument risk management disclosures.

Subject to regulatory approval, CLCT may redeem the CLiCS - Series B, in whole or in part, at any time.

16. Financing Charges

Financing charges consist of the following:

	2021	2020
Operating charges:		
Interest on operating lines and short-term debt instruments	\$ 7	\$ 5
Financial charges:		
Interest on long-term debentures and other debt instruments	275	251
Interest on limited recourse capital notes	20	—
Interest on capital trust securities	11	11
Other	15	17
	<u>321</u>	<u>279</u>
Total	<u>\$ 328</u>	<u>\$ 284</u>

17. Other Liabilities

	2021	2020
Pension and other post-employment benefits (note 23)	\$ 989	\$ 1,630
Lease liabilities	522	568
Bank overdraft	407	444
Deferred income reserves	314	345
Other	3,831	2,160
Total	<u>\$ 6,063</u>	<u>\$ 5,147</u>

Total other liabilities of \$4,238 (\$2,604 at December 31, 2020) are expected to be realized within 12 months from the reporting date. This amount excludes deferred income reserves, the changes in which are noted below.

17. Other Liabilities (cont'd)

Deferred income reserves

	2021	2020
Balance, beginning of year	\$ 345	\$ 380
Additions	70	51
Amortization	(71)	(78)
Changes in foreign exchange	(14)	12
Disposals	(16)	(20)
Balance, end of year	<u>\$ 314</u>	<u>\$ 345</u>

Lease liabilities

	2021		
	Property	Equipment	Total
Balance, beginning of year	\$ 565	\$ 3	\$ 568
Additions	21	5	26
Modifications	(2)	—	(2)
Lease payments	(86)	(3)	(89)
Changes in foreign exchange rates	(2)	—	(2)
Interest	21	—	21
Balance, end of year	<u>\$ 517</u>	<u>\$ 5</u>	<u>\$ 522</u>

	2020		
	Property	Equipment	Total
Balance, beginning of year	\$ 580	\$ 5	\$ 585
Additions	56	1	57
Modifications	(4)	—	(4)
Lease payments	(85)	(3)	(88)
Changes in foreign exchange rates	(4)	—	(4)
Interest	22	—	22
Balance, end of year	<u>\$ 565</u>	<u>\$ 3</u>	<u>\$ 568</u>

The following table presents the contractual undiscounted cash flows for lease obligations:

	2021	2020
One year or less	\$ 83	\$ 88
Over one year to two years	71	78
Over two years to three years	63	67
Over three years to four years	55	60
Over four years to five years	52	54
Over five years	340	387
Total undiscounted lease obligations	<u>\$ 664</u>	<u>\$ 734</u>

18. Non-Controlling Interests

The Company has a controlling equity interest in Canada Life, GWL&A, and Putnam at December 31, 2021 and December 31, 2020.

Non-controlling interests attributable to participating account surplus is the proportion of the equity attributable to the participating account of the Company's subsidiaries.

Non-controlling interests in subsidiaries also include non-controlling interests for the issued and outstanding shares of Putnam and PanAgora held by employees of the respective companies, and non-controlling interests through Irish Life's controlling interest in Invesco Ltd. (Ireland).

(a) The non-controlling interests recorded in the Consolidated Statements of Earnings and other comprehensive income are as follows:

	2021	2020
Net earnings attributable to participating account before policyholder dividends		
Canada Life	\$ 1,708	\$ 1,429
GWL&A	—	1
	<u>1,708</u>	<u>1,430</u>
Policyholder dividends		
Canada Life	(1,405)	(1,362)
GWL&A	(1)	(2)
	<u>(1,406)</u>	<u>(1,364)</u>
Net earnings - participating account	302	66
Non-controlling interests in subsidiaries	(1)	12
Total	<u>\$ 301</u>	<u>\$ 78</u>

The non-controlling interests recorded in other comprehensive income (loss) for the year ended December 31, 2021 was \$(28) (\$37 for the year ended December 31, 2020).

(b) The carrying value of non-controlling interests consists of the following:

	2021	2020
Participating account surplus in subsidiaries:		
Canada Life	\$ 3,126	\$ 2,858
GWL&A	12	13
Total	<u>\$ 3,138</u>	<u>\$ 2,871</u>
Non-controlling interests in subsidiaries	<u>\$ 129</u>	<u>\$ 116</u>

19. Share Capital

(a) Limited Recourse Capital Notes

On August 16, 2021, the Company issued \$1,500 aggregate principal amount 3.60% Limited Recourse Capital Notes Series 1 (Subordinated Indebtedness) at par, maturing on December 31, 2081 (LRCN Series 1). The LRCN Series 1 bear interest at a fixed rate of 3.60% per annum payable semi-annually, up to but excluding December 31, 2026. On December 31, 2026 and every five years thereafter until December 31, 2076, the interest rate on the LRCN Series 1 will be reset at an interest rate equal to the five-year Government of Canada Yield, plus 2.641%. Commencing November 30, 2026, the Company will have the option to redeem the LRCN Series 1 every five years during the period from November 30 to December 31, in whole or in part at par, together in each case with accrued and unpaid interest. The Company will be required to redeem the LRCN Series 1 in whole at par, together with accrued and unpaid interest, if GWL&A's acquisition of Prudential's full-service retirement business is terminated prior to, or has not closed on or prior to, May 3, 2022 (or such later date as extended pursuant to the acquisition agreement). The LRCN Series 1 are presented within equity on the Consolidated Balance Sheets. Transaction costs incurred in connection with the LRCN Series 1 issue of \$17 (\$13 after-tax) were charged to accumulated surplus. Interest expense of \$20 for the year ended December 31, 2021 was recognized in financing charges in the Consolidated Statements of Earnings. The LRCN Series 1 had a fair value of \$1,475 at December 31, 2021.

Non-payment of interest or principal when due on the LRCN Series 1 will result in a recourse event, with the noteholders' sole remedy being receipt of their proportionate share of Non-Cumulative 5-Year Rate Reset First Preferred Shares, Series U (Series U Preferred Shares) held in a newly formed consolidated trust (Limited Recourse Trust). All claims of the holders of LRCN Series 1 against the Company will be extinguished upon receipt of the corresponding trust assets. The Series U Preferred Shares are eliminated on the Company's Consolidated Balance Sheets while being held within the Limited Recourse Trust.

19. Share Capital (cont'd)

(b) Preferred Shares

Authorized

Unlimited First Preferred Shares, Class A Preferred Shares and Second Preferred Shares

Unlimited Common Shares

Issued and outstanding and fully paid

	2021		2020	
	Number	Carrying value	Number	Carrying value
First Preferred Shares				
Series F, 5.90% Non-Cumulative	—	\$ —	7,740,032	\$ 194
Series G, 5.20% Non-Cumulative	12,000,000	300	12,000,000	300
Series H, 4.85% Non-Cumulative	12,000,000	300	12,000,000	300
Series I, 4.50% Non-Cumulative	12,000,000	300	12,000,000	300
Series L, 5.65% Non-Cumulative	6,800,000	170	6,800,000	170
Series M, 5.80% Non-Cumulative	6,000,000	150	6,000,000	150
Series N, 1.749% Non-Cumulative Rate Reset	10,000,000	250	10,000,000	250
Series P, 5.40% Non-Cumulative	10,000,000	250	10,000,000	250
Series Q, 5.15% Non-Cumulative	8,000,000	200	8,000,000	200
Series R, 4.80% Non-Cumulative	8,000,000	200	8,000,000	200
Series S, 5.25% Non-Cumulative	8,000,000	200	8,000,000	200
Series T, 5.15% Non-Cumulative	8,000,000	200	8,000,000	200
Series Y, 4.50% Non-Cumulative	8,000,000	200	—	—
Total	108,800,000	\$ 2,720	108,540,032	\$ 2,714
Common shares				
Balance, beginning of year	927,853,106	\$ 5,651	927,281,186	\$ 5,633
Exercised and issued under stock option plan	2,767,232	97	571,920	18
Balance, end of year	930,620,338	\$ 5,748	927,853,106	\$ 5,651

On October 8, 2021, the Company issued 8,000,000, 4.50% Non-Cumulative First Preferred Shares, Series Y at \$25.00 per share for gross proceeds of \$200. The shares are redeemable at the option of the Company on or after December 31, 2026 for \$25.00 per share plus a premium if redeemed prior to December 31, 2030, in each case together with all declared and unpaid dividends up to but excluding the date of redemption. Transaction costs incurred in connection with the preferred share issue of \$4 (\$3 after-tax) were charged to accumulated surplus.

On December 31, 2021 the Company redeemed all of its issued and outstanding, 5.90% Non-Cumulative First Preferred Shares, Series F for \$25.00 per share plus an amount equal to all declared and unpaid dividends, less any tax required to be deducted and withheld by the Company.

The Series G, 5.20% Non-Cumulative First Preferred Shares are currently redeemable at the option of the Company for \$25.00 per share, together with all declared and unpaid dividends up to but excluding the date of redemption.

The Series H, 4.85% Non-Cumulative First Preferred Shares are currently redeemable at the option of the Company for \$25.00 per share, together with all declared and unpaid dividends up to but excluding the date of redemption.

The Series I, 4.50% Non-Cumulative First Preferred Shares are currently redeemable at the option of the Company for \$25.00 per share, together with all declared and unpaid dividends up to but excluding the date of redemption.

19. *Share Capital (cont'd)*

The Series L, 5.65% Non-Cumulative First Preferred Shares are currently redeemable at the option of the Company for \$25.00 per share, together with all declared and unpaid dividends up to but excluding the date of redemption.

The Series M, 5.80% Non-Cumulative First Preferred Shares are currently redeemable at the option of the Company for \$25.00 per share, together with all declared and unpaid dividends up to but excluding the date of redemption.

The Series N, Non-Cumulative 5-Year Rate Reset First Preferred Shares carry an annual fixed non-cumulative dividend rate of 1.749% up to but excluding December 31, 2025 and are redeemable at the option of the Company on December 31, 2025 and on December 31 every five years thereafter for \$25.00 per share plus all declared and unpaid dividends up to but excluding the date of redemption. Subject to the Company's right of redemption and certain other restrictions on conversion described in the Series N share conditions, each Series N share is convertible into one Series O, Non-Cumulative Floating Rate First Preferred Share at the option of the holders on December 31, 2025 and on December 31 every five years thereafter.

The Series P, 5.40% Non-Cumulative First Preferred Shares are currently redeemable at the option of the Company for \$25.00 per share, together with all declared and unpaid dividends up to but excluding the date of redemption.

The Series Q, 5.15% Non-Cumulative First Preferred Shares are currently redeemable at the option of the Company for \$25.00 per share, together with all declared and unpaid dividends up to but excluding the date of redemption.

The Series R, 4.80% Non-Cumulative First Preferred Shares are currently redeemable at the option of the Company for \$25.00 per share, together with all declared and unpaid dividends up to but excluding the date of redemption.

The Series S, 5.25% Non-Cumulative First Preferred Shares are redeemable at the option of the Company for \$25.00 per share plus a premium if redeemed prior to June 30, 2023, together with all declared and unpaid dividends up to but excluding the date of redemption.

The Series T, 5.15% Non-Cumulative First Preferred Shares are redeemable at the option of the Company on or after June 30, 2022 for \$25.00 per share plus a premium if redeemed prior to June 30, 2026, together with all declared and unpaid dividends up to but excluding the date of redemption.

(c) Common Shares

Normal Course Issuer Bid

The Company renewed its normal course issuer bid (NCIB) effective January 27, 2021 for one year to purchase and cancel up to 20,000,000 of its common shares at market prices in order to mitigate the dilutive effect of stock options granted under the Company's Stock Option Plan and for other capital management purposes. During the year ended December 31, 2021, the Company did not purchase any common shares under the NCIB (nil for the year ended December 31, 2020, under the previous NCIB). On November 4, 2021, OSFI withdrew its guidance provided in March 2020 at the outset of the COVID-19 pandemic that Canadian banks and insurers should suspend share buybacks and not increase dividend payments.

Subsequent Event

On January 25, 2022, the Company announced a new NCIB commencing January 27, 2022 and terminating January 26, 2023 to purchase for cancellation up to but not more than 20,000,000 of its common shares at market prices.

20. Earnings Per Common Share

The following provides the reconciliation between basic and diluted earnings per common share:

	2021	2020
Earnings		
Net earnings	\$ 3,262	\$ 3,076
Preferred share dividends	(134)	(133)
Net earnings - common shareholders	\$ 3,128	\$ 2,943
Number of common shares		
Average number of common shares outstanding	929,461,348	927,675,108
Add: Potential exercise of outstanding stock options	1,496,586	109,974
Average number of common shares outstanding - diluted basis	930,957,934	927,785,082
Basic earnings per common share	\$ 3.365	\$ 3.173
Diluted earnings per common share	\$ 3.360	\$ 3.172
Dividends per common share ⁽¹⁾	\$ 1.804	\$ 1.752

⁽¹⁾ Includes an additional dividend of \$0.052 declared November 14, 2021.

21. Capital Management

(a) Policies and Objectives

Managing capital is the continual process of establishing and maintaining the quantity and quality of capital appropriate for the Company and ensuring capital is deployed in a manner consistent with the expectations of the Company's stakeholders. For these purposes, the Board considers the key stakeholders to be the Company's shareholders, policyholders and holders of subordinated liabilities in addition to the relevant regulators in the various jurisdictions where the Company and its subsidiaries operate.

The Company manages its capital on both a consolidated basis as well as at the individual operating subsidiary level. The primary objectives of the Company's capital management strategy are:

- to maintain the capitalization of its regulated operating subsidiaries at a level that will exceed the relevant minimum regulatory capital requirements in the jurisdictions in which they operate;
- to maintain strong credit and financial strength ratings of the Company ensuring stable access to capital markets; and
- to provide an efficient capital structure to maximize shareholders' value in the context of the Company's operational risks and strategic plans.

The Company has established policies and procedures designed to identify, measure and report all material risks. Management is responsible for establishing capital management procedures for implementing and monitoring the capital plan.

The capital planning process is the responsibility of the Company's Chief Financial Officer. The capital plan is approved by the Company's Board of Directors on an annual basis. The Board of Directors reviews and approves all capital transactions undertaken by management.

21. Capital Management (cont'd)

The target level of capitalization for the Company and its subsidiaries is assessed by considering various factors such as the probability of falling below the minimum regulatory capital requirements in the relevant operating jurisdiction, the views expressed by various credit rating agencies that provide financial strength and other ratings to the Company, and the desire to hold sufficient capital to be able to honour all policyholder and other obligations of the Company with a high degree of confidence.

(b) Regulatory Capital

In Canada, OSFI has established a regulatory capital adequacy measurement for life insurance companies incorporated under the Insurance Companies Act (Canada) and their subsidiaries.

The Life Insurance Capital Adequacy Test (LICAT) Ratio compares the regulatory capital resources of a company to its required capital, defined by OSFI, as the aggregate of all defined capital requirements. The total capital resources are provided by the sum of Available Capital, Surplus Allowance and Eligible Deposits.

The following provides a summary of the LICAT information and ratios for Canada Life:

	2021	2020
Tier 1 Capital	\$ 12,584	\$ 11,593
Tier 2 Capital	4,417	4,568
Total Available Capital	17,001	16,161
Surplus Allowance & Eligible Deposits	13,225	14,226
Total Capital Resources	<u>\$ 30,226</u>	<u>\$ 30,387</u>
 Required Capital	 <u>\$ 24,323</u>	 <u>\$ 23,607</u>
 Total LICAT Ratio (OSFI Supervisory Target = 100%) ⁽¹⁾	 <u>124 %</u>	 <u>129 %</u>

⁽¹⁾ Total Ratio (%) = (Total Capital Resources / Required Capital)

For entities based in Europe, the local solvency capital regime is the Solvency II basis. At December 31, 2021 and December 31, 2020, all European regulated entities met the capital and solvency requirements as prescribed under Solvency II.

GWL&A is subject to the risk-based capital regulatory regime in the U.S. Other foreign operations and foreign subsidiaries of the Company are required to comply with local capital or solvency requirements in their respective jurisdictions. At December 31, 2021 and December 31, 2020, the Company maintained capital levels above the minimum local regulatory requirements in each of its foreign operations.

22. Share-Based Payments

- (a) The Company has a stock option plan (the Plan) pursuant to which options to subscribe for common shares of Lifeco may be granted to certain officers and employees of Lifeco and its affiliates. The Company's Human Resources Committee (the Committee) administers the Plan and, subject to the specific provisions of the Plan, fixes the terms and conditions upon which options are granted. The exercise price of each option granted under the Plan is fixed by the Committee, but cannot under any circumstances be less than the weighted average trading price per Lifeco common share on the Toronto Stock Exchange for the five trading days preceding the date of the grant. Options granted prior to January 1, 2019 vest over a period of five years. Options granted on or after January 1, 2019 vest 50% three years after the grant date and 50% four years after the grant date. Options have a maximum exercise period of ten years from the grant date. Termination of employment may, in certain circumstances, result in forfeiture of the options, unless otherwise determined by the Committee. In 2021, the maximum number of Lifeco common shares issuable under the Plan was 72,500,000.

During 2021, 2,638,300 common share options were granted (1,932,200 during 2020). The weighted average fair value of common share options granted during 2021 was \$2.60 per option (\$1.86 in 2020). The fair value of each common share option was estimated using the Black-Scholes option-pricing model with the following weighted average assumptions used for those options granted in 2021: dividend yield 5.43% (5.44% in 2020), expected volatility 18.47% (15.75% in 2020), risk-free interest rate 1.18% (1.10% in 2020), and expected life of eight years (eight in 2020).

The following summarizes the changes in options outstanding and the weighted average exercise price:

	2021		2020	
	Options	Weighted average exercise price	Options	Weighted average exercise price
Outstanding, beginning of year	16,399,279	\$ 32.69	15,378,339	\$ 32.57
Granted	2,638,300	32.28	1,932,200	32.22
Exercised	(2,767,232)	30.90	(571,920)	26.71
Forfeited/expired	(146,620)	33.39	(339,340)	34.74
Outstanding, end of year	16,123,727	\$ 32.92	16,399,279	\$ 32.69
Options exercisable at end of year	8,522,967	\$ 33.78	10,084,559	\$ 32.94

The weighted average share price at the date of exercise of stock options for the year ended December 31, 2021 was \$36.11 (\$32.59 in 2020).

Compensation expense due to the Plan transactions accounted for as equity-settled share-based payments of \$5 after-tax in 2021 (\$4 after-tax in 2020) has been recognized in the Consolidated Statements of Earnings.

22. Share-Based Payments (cont'd)

The following summarizes information on the ranges of exercise prices including weighted average remaining contractual life at December 31, 2021:

Exercise price ranges	Outstanding			Exercisable		
	Options	Weighted average remaining contractual life	Weighted average exercise price	Options	Weighted average exercise price	Expiry
\$23.16 - \$36.87	501,180	0.30	28.15	494,580	28.12	2022
\$27.13 - \$36.87	910,680	1.29	30.35	910,680	30.35	2023
\$30.28 - \$36.87	1,566,428	2.32	32.98	1,566,428	32.98	2024
\$34.68 - \$36.87	1,488,059	3.19	35.67	1,488,059	35.67	2025
\$30.28 - \$36.87	2,196,260	4.19	34.32	2,196,260	34.32	2026
\$36.87 - \$36.87	1,153,200	5.16	36.87	925,740	36.87	2027
\$32.99 - \$34.21	1,560,020	6.16	34.20	932,820	34.20	2028
\$30.28 - \$32.50	2,400,400	7.16	30.33	8,400	30.28	2029
\$32.22 - \$32.22	1,809,800	8.16	32.22	—	—	2030
\$32.10 - \$38.75	2,537,700	9.16	32.28	—	—	2031

- (b) To promote greater alignment of interests between the Directors and Lifeco's shareholders, the Company and certain of its subsidiaries have mandatory DSU Plans and/or voluntary DSU Plans (the "Mandatory DSU Plans" and the "Voluntary DSU Plans" respectively) in which the Directors of the Company participate. Under the Mandatory DSU Plans, each Director who is a resident of Canada or the United States must receive 50% of their annual Board retainer in the form of Deferred Share Units (DSUs). Under the Voluntary DSU Plans, each Director may elect to receive the balance of their annual Board retainer and Board Committee fees entirely in the form of DSUs, entirely in cash, or equally in cash and DSUs. In both cases, the number of DSUs granted is determined by dividing the amount of remuneration payable to the Director by the weighted average trading price per Lifeco common share on the Toronto Stock Exchange (TSX) for the last five trading days of the preceding fiscal quarter. Directors receive additional DSUs for dividends payable on the Company's common shares based on the value of a DSU at the dividend payment date. DSUs are redeemable when an individual ceases to be a Director, or as applicable, an officer or employee of the Company or any of its affiliates by a lump sum cash payment, based on the weighted average trading price per Lifeco common share on the TSX for the last five trading days preceding the date of redemption. In 2021, \$6 in Directors' fees were used to acquire DSUs (\$6 in 2020). At December 31, 2021, the carrying value of the DSU liability is \$69 (\$49 in 2020) recorded within other liabilities.

Certain employees of the Company are entitled to receive DSUs. Under these DSU Plans, certain employees may elect to receive DSUs as settlement of their annual incentive plan or as settlement of PSUs issued under the Company's PSU Plan. In both cases these employees are granted DSUs equivalent to the Company's common shares. Employees receive additional DSUs in respect of dividends payable on the common shares based on the value of the DSUs at the time. DSUs are redeemable when an individual ceases to be an officer or employee of the Company or any of its affiliates, by a lump sum cash payment representing the value of the DSUs at that date. The Company uses the fair-value based method to account for the DSUs granted to employees under the plans. For the year ended December 31, 2021, the Company recognized compensation expense of \$16 (\$4 in 2020) for the DSU Plans recorded in operating and administrative expenses in the Consolidated Statements of Earnings. At December 31, 2021, the carrying value of the DSU liability is \$40 (\$25 in 2020) recorded within other liabilities in the Consolidated Balance Sheets.

22. *Share-Based Payments (cont'd)*

- (c) Certain employees of the Company are entitled to receive PSUs. Under the PSU Plan, these employees are granted PSUs equivalent to the Company's common shares vesting over a three-year period. Employees receive additional PSUs in respect of dividends payable on the common shares based on the value of a PSU at that time. At the maturity date, employees receive cash representing the value of the PSU at this date. The Company uses the fair-value based method to account for the PSUs granted to employees under the plan. For the year ended December 31, 2021, the Company recognized compensation expense, excluding the impact of hedging, of \$102 (\$41 in 2020) for the PSU Plan recorded in operating and administrative expenses in the Consolidated Statements of Earnings. At December 31, 2021, the carrying value of the PSU liability is \$156 (\$93 in 2020) recorded within other liabilities.
- (d) The Company's Employee Share Ownership Plan (ESOP) is a voluntary plan where eligible employees can contribute up to 5% of their previous year's eligible earnings to purchase common shares of Lifeco. The Company matches 50% of the total employee contributions. The contributions from the Company vest immediately and are expensed. For the year ended December 31, 2021, the Company recognized compensation expense of \$13 (\$13 in 2020) for the ESOP recorded in operating and administrative expenses in the Consolidated Statements of Earnings.
- (e) Putnam sponsors the Putnam Investments, LLC Equity Incentive Plan. Under the terms of the Equity Incentive Plan, Putnam is authorized to grant or sell Class B Shares of Putnam (the Putnam Class B Shares), subject to certain restrictions, and to grant options to purchase Putnam Class B Shares (collectively, the Awards) to certain senior management and key employees of Putnam at fair value at the time of the award. Fair value is determined under the valuation methodology outlined in the Equity Incentive Plan. Awards vest over a period of up to five years and are specified in the individual's award letter. Holders of Putnam Class B Shares are not entitled to vote other than in respect of certain matters in regards to the Equity Incentive Plan and have no rights to convert their shares into any other securities. The number of Putnam Class B Shares that may be subject to Awards under the Equity Incentive Plan is limited to 16,764,705.

During 2021, Putnam granted 2,824,156 (3,092,859 in 2020) restricted Class B common shares to certain members of senior management and key employees.

Compensation expense recorded for the year ended December 31, 2021 related to restricted Class B common shares and Class B stock options earned was \$41 (\$31 in 2020) and is recorded in operating and administrative expenses in the Consolidated Statements of Earnings.

- (f) Certain employees of PanAgora, a subsidiary of Putnam, are eligible to participate in the PanAgora Management Equity Plan under which Class C Shares of PanAgora and options and stock appreciation rights on Class C Shares of PanAgora may be issued. Holders of PanAgora Class C Shares are not entitled to vote and have no rights to convert their shares into any other securities. The number of PanAgora Class C Shares may not exceed 20% of the equity of PanAgora on a fully exercised and converted basis.

Compensation expense recorded for the year ended December 31, 2021 related to restricted Class C Shares and stock appreciation rights was \$13 in 2021 (\$14 in 2020) and is included as a component of operating and administrative expenses in the Consolidated Statements of Earnings.

23. Pension Plans and Other Post-Employment Benefits

Characteristics, Funding and Risk

The Company's subsidiaries maintain contributory and non-contributory defined benefit pension plans for eligible employees and advisors. The Company's subsidiaries also maintain defined contribution pension plans for eligible employees and advisors.

The defined benefit pension plans provide pensions based on length of service and final average pay; however, these plans are closed to new entrants. Many of the defined benefit pension plans also no longer provide future defined benefit accruals. The Company's defined benefit plan exposure is expected to reduce in future years. Where defined benefit pension accruals continue, active plan participants share in the cost by making contributions in respect of current service. Certain pension payments are indexed either on an ad hoc basis or a guaranteed basis. The determination of the defined benefit obligation reflects pension benefits in accordance with the terms of the plans. Assets supporting the funded pension plans are held in separate trustee pension funds. Obligations for the wholly unfunded plans are included in other liabilities and are supported by general assets.

New hires and active plan participants in defined benefit plans closed to future defined benefit accruals are eligible for defined contribution pension benefits. The defined contribution pension plans provide pension benefits based on accumulated employee and employer contributions. Employer contributions to these plans are a set percentage of employees' annual income and may be subject to certain vesting requirements.

The Company's subsidiaries also provide post-employment health, dental and life insurance benefits to eligible employees, advisors and their dependents. Retirees share in the cost of benefits through deductibles, co-insurance and caps on benefits. These plans are closed to new hires and were previously amended to limit which employees could become eligible to receive benefits. The amount of some of the post-employment benefits other than pensions depends on future cost escalation. These post-employment benefits are not pre-funded and the amount of the obligation for these benefits is included in other liabilities and is supported by general assets.

The Company's subsidiaries have pension and benefit committees or a trustee arrangement that provides oversight for the benefit plans. The benefit plans are monitored on an ongoing basis to assess the benefit, funding and investment policies, financial status, and funding requirements. Significant changes to a subsidiary company's benefit plans require approval from that company's Board of Directors.

The funding policies of the Company's subsidiaries for the funded pension plans require annual contributions equal to or greater than those required by the applicable regulations and plan provisions that govern the funding of the plans. Where funded plans have a net defined benefit pension plan asset, the Company determines if an economic benefit exists in the form of potential reductions in future contributions by the Company, from the payment of expenses from the plan and in the form of surplus refunds, where permitted by applicable regulation and plan provisions.

By their design, the defined benefit plans expose the Company to the typical risks faced by defined benefit plans such as investment performance, changes to the discount rates used to value the obligations, longevity of plan members, and future inflation. Pension and benefit risk is managed by regular monitoring of the plans, applicable regulations and other factors that could impact the expenses and cash flows of the Company.

23. Pension Plans and Other Post-Employment Benefits (cont'd)

The following reflects the financial position of the contributory and non-contributory defined benefit plans of the Company's subsidiaries:

(a) Plan Assets, Benefit Obligation and Funded Status

	Defined benefit pension plans		Other post- employment benefits	
	2021	2020	2021	2020
Change in fair value of plan assets				
Fair value of plan assets, beginning of year	\$ 7,602	\$ 6,972	\$ —	\$ —
Interest income	159	179	—	—
Actual return over (less than) interest income	498	453	—	—
Employer contributions	115	164	19	17
Employee contributions	18	15	—	—
Benefits paid	(306)	(285)	(19)	(17)
Settlements	(142)	(11)	—	—
Administrative expenses	(8)	(8)	—	—
Foreign exchange rate changes	(193)	123	—	—
Fair value of plan assets, end of year	\$ 7,743	\$ 7,602	\$ —	\$ —
Change in defined benefit obligation				
Defined benefit obligation, beginning of year	\$ 8,554	\$ 7,836	\$ 409	\$ 388
Current service cost	91	88	3	2
Interest cost	181	204	10	12
Employee contributions	18	15	—	—
Benefits paid	(306)	(285)	(19)	(17)
Curtailments and termination benefits	(1)	(11)	—	—
Settlements	(200)	(14)	—	—
Actuarial loss (gain) on financial assumption changes	(150)	599	(25)	28
Actuarial loss (gain) on demographic assumption changes	(16)	(9)	(10)	1
Actuarial loss (gain) arising from member experience	(16)	18	(1)	(4)
Foreign exchange rate changes	(194)	113	—	(1)
Defined benefit obligation, end of year	\$ 7,961	\$ 8,554	\$ 367	\$ 409
Asset (liability) recognized on the Consolidated Balance Sheets				
Funded status of plans - surplus (deficit)	\$ (218)	\$ (952)	\$ (367)	\$ (409)
Unrecognized amount due to asset ceiling	(41)	(29)	—	—
Asset (liability) recognized on the Consolidated Balance Sheets	\$ (259)	\$ (981)	\$ (367)	\$ (409)
Recorded in:				
Other assets (note 12)	\$ 363	\$ 240	\$ —	\$ —
Other liabilities (note 17)	(622)	(1,221)	(367)	(409)
Asset (liability) recognized on the Consolidated Balance Sheets	\$ (259)	\$ (981)	\$ (367)	\$ (409)
Analysis of defined benefit obligation				
Wholly or partly funded plans	\$ 7,646	\$ 8,213	\$ —	\$ —
Wholly unfunded plans	\$ 315	\$ 341	\$ 367	\$ 409

23. Pension Plans and Other Post-Employment Benefits (cont'd)

Under IFRIC 14, *The Limit on a Defined Benefit Asset, Minimum Funding Requirements and their Interaction*, the Company must assess whether each pension plan's asset has economic benefit to the Company through future contribution reductions, from the payment of expenses from the plan, or surplus refunds; in the event the Company is not entitled to a benefit, a limit or 'asset ceiling' is required on the balance. The following provides a breakdown of the changes in the asset ceiling:

	Defined benefit pension plans	
	2021	2020
Change in asset ceiling		
Asset ceiling, beginning of year	\$ 29	\$ 37
Interest on asset ceiling	1	1
Change in asset ceiling	11	(11)
Foreign exchange rate changes	—	2
Asset ceiling, end of year	\$ 41	\$ 29

(b) Pension and Other Post-Employment Benefits Expense

The total pension and other post-employment benefit expense included in operating expenses and other comprehensive income are as follows:

	All pension plans		Other post-employment benefits	
	2021	2020	2021	2020
Defined benefit current service cost	\$ 109	\$ 103	\$ 3	\$ 2
Defined contribution current service cost	184	145	—	—
Employee contributions	(18)	(15)	—	—
Employer current service cost	275	233	3	2
Administrative expense	8	8	—	—
Curtailments	(1)	(11)	—	—
Settlements	(58)	(3)	—	—
Net interest cost	23	26	10	12
Expense - profit or loss	247	253	13	14
Actuarial (gain) loss recognized	(182)	608	(36)	25
Return on assets (greater) less than assumed	(498)	(453)	—	—
Change in the asset ceiling	11	(11)	—	—
Re-measurements - other comprehensive (income) loss	(669)	144	(36)	25
Total expense (income) including re-measurements	\$ (422)	\$ 397	\$ (23)	\$ 39

23. Pension Plans and Other Post-Employment Benefits (cont'd)

(c) Asset Allocation by Major Category Weighted by Plan Assets

	Defined benefit pension plans	
	2021	2020
Equity securities	39%	40%
Debt securities	51%	48%
Real estate	7%	7%
Cash and cash equivalents	3%	5%
Total	100%	100%

No plan assets are directly invested in the Company's or related parties' securities. Plan assets include investments in segregated funds and other funds managed by subsidiaries of the Company of \$6,980 at December 31, 2021 and \$6,871 at December 31, 2020, of which \$6,902 (\$6,790 at December 31, 2020) are included on the Consolidated Balance Sheets. Plan assets do not include any property occupied or other assets used by the Company.

(d) Details of Defined Benefit Obligation

(i) Portion of Defined Benefit Obligation Subject to Future Salary Increases

	Defined benefit pension plans		Other post-employment benefits	
	2021	2020	2021	2020
Benefit obligation without future salary increases	\$ 7,361	\$ 7,893	\$ 367	\$ 409
Effect of assumed future salary increases	600	661	—	—
Defined benefit obligation	\$ 7,961	\$ 8,554	\$ 367	\$ 409

The other post-employment benefits are not subject to future salary increases.

(ii) Portion of Defined Benefit Obligation Without Future Pension Increases

	Defined benefit pension plans		Other post-employment benefits	
	2021	2020	2021	2020
Benefit obligation without future pension increases	\$ 7,137	\$ 7,918	\$ 367	\$ 409
Effect of assumed future pension increases	824	636	—	—
Defined benefit obligation	\$ 7,961	\$ 8,554	\$ 367	\$ 409

The other post-employment benefits are not subject to future pension increases.

23. Pension Plans and Other Post-Employment Benefits (cont'd)

(iii) Maturity Profile of Plan Membership

	Defined benefit pension plans		Other post-employment benefits	
	2021	2020	2021	2020
Actives	41 %	40 %	15 %	16 %
Deferred vesteds	18 %	20 %	n/a	n/a
Retirees	41 %	40 %	85 %	84 %
Total	100 %	100 %	100 %	100 %
Weighted average duration of defined benefit obligation	17.6 years	18.7 years	11.8 years	11.9 years

(e) Cash Flow Information

	Pension plans	Other post-employment benefits	Total
Expected employer contributions for 2022:			
Funded (wholly or partly) defined benefit plans	\$ 80	\$ —	\$ 80
Unfunded plans	25	22	47
Defined contribution plans	179	—	179
Total	\$ 284	\$ 22	\$ 306

(f) Actuarial Assumptions and Sensitivities

(i) Actuarial Assumptions

	Defined benefit pension plans		Other post-employment benefits	
	2021	2020	2021	2020
To determine benefit cost:				
Discount rate - past service liabilities	2.2 %	2.6 %	2.5 %	3.1 %
Discount rate - future service liabilities	2.8 %	3.2 %	2.6 %	3.3 %
Rate of compensation increase	3.0 %	2.9 %	—	—
Future pension increases ⁽¹⁾	1.2 %	1.3 %	—	—
To determine defined benefit obligation:				
Discount rate - past service liabilities	2.6 %	2.1 %	3.1 %	2.5 %
Rate of compensation increase	3.1 %	2.9 %	—	—
Future pension increases ⁽¹⁾	1.7 %	1.0 %	—	—
Medical cost trend rates:				
Initial medical cost trend rate			4.7 %	4.7 %
Ultimate medical cost trend rate			4.1 %	4.1 %
Year ultimate trend rate is reached			2039	2039

⁽¹⁾ Represents the weighted average of plans subject to future pension increases.

23. Pension Plans and Other Post-Employment Benefits (cont'd)

(ii) Sample Life Expectancies Based on Mortality Assumptions

	Defined benefit pension plans		Other post-employment benefits	
	2021	2020	2021	2020
Sample life expectancies based on mortality assumption:				
Male				
Age 65 in fiscal year	22.6	22.7	22.5	22.5
Age 65 for those age 35 in the fiscal year	24.5	24.7	24.0	24.0
Female				
Age 65 in fiscal year	24.7	24.8	24.9	24.7
Age 65 for those age 35 in the fiscal year	26.6	26.7	26.2	26.2

The period of time over which benefits are assumed to be paid is based on best estimates of future mortality, including allowances for mortality improvements. This estimate is subject to considerable uncertainty, and judgment is required in establishing this assumption. As mortality assumptions are significant in measuring the defined benefit obligation, the mortality assumptions applied by the Company take into consideration such factors as age, gender and geographic location, in addition to an estimation of future improvements in longevity.

The mortality tables are reviewed at least annually, and assumptions are in accordance with accepted actuarial practice. Emerging plan experience is reviewed and considered in establishing the best estimate for future mortality.

The calculation of the defined benefit obligation is sensitive to the mortality assumptions. The effect of a one-year increase in life expectancy would be an increase in the defined benefit obligation of \$246 for the defined benefit pension plans and \$12 for other post-employment benefits.

(iii) Impact of Changes to Assumptions on Defined Benefit Obligation

	1% increase		1% decrease	
	2021	2020	2021	2020
Defined benefit pension plans:				
Impact of a change to the discount rate	\$ (1,199)	\$ (1,350)	\$ 1,568	\$ 1,784
Impact of a change to the rate of compensation increase	299	329	(269)	(291)
Impact of a change to the rate of inflation	578	662	(507)	(569)
Other post-employment benefits:				
Impact of a change to assumed medical cost trend rates	24	31	(21)	(26)
Impact of a change to the discount rate	(36)	(44)	44	53

To measure the impact of a change in an assumption, all other assumptions were held constant. It is expected that there would be interaction between at least some of the assumptions.

24. Accumulated Other Comprehensive Income

2021										
	Unrealized foreign exchange gains (losses) on translation of foreign operations	Unrealized gains (losses) on hedges of the net investment in foreign operations	Unrealized gains (losses) on available-for-sale assets	Unrealized gains (losses) on cash flow hedges	Re-measurements on defined benefit pension and other post-employment benefit plans	Revaluation surplus on transfer to investment properties	Total	Non-controlling interest	Shareholders	
Balance, beginning of year	\$ 1,339	\$ (135)	\$ 266	\$ 24	\$ (978)	\$ 10	\$ 526	\$ (39)	\$ 487	
Other comprehensive income (loss)	(391)	117	(159)	12	705	—	284	40	324	
Income tax	—	(12)	38	(3)	(190)	—	(167)	(12)	(179)	
	(391)	105	(121)	9	515	—	117	28	145	
Balance, end of year	\$ 948	\$ (30)	\$ 145	\$ 33	\$ (463)	\$ 10	\$ 643	\$ (11)	\$ 632	
2020										
	Unrealized foreign exchange gains (losses) on translation of foreign operations	Unrealized gains (losses) on hedges of the net investment in foreign operations	Unrealized gains (losses) on available-for-sale assets	Unrealized gains (losses) on cash flow hedges	Re-measurements on defined benefit pension and other post-employment benefit plans	Revaluation surplus on transfer to investment properties	Total	Non-controlling interest	Shareholders	
Balance, beginning of year	\$ 1,236	\$ (57)	\$ 154	\$ 13	\$ (849)	\$ —	\$ 497	\$ (2)	\$ 495	
Other comprehensive income (loss)	105	(90)	146	15	(169)	11	18	(54)	(36)	
Income tax	(2)	12	(34)	(4)	40	(1)	11	17	28	
	103	(78)	112	11	(129)	10	29	(37)	(8)	
Balance, end of year	\$ 1,339	\$ (135)	\$ 266	\$ 24	\$ (978)	\$ 10	\$ 526	\$ (39)	\$ 487	

25. Related Party Transactions

Power Corporation, which is incorporated and domiciled in Canada, is the Company's parent and has voting control of the Company. The Company is related to other members of the Power Corporation group of companies including IGM, a company in the financial services sector along with its subsidiaries IG Wealth Management, Mackenzie Financial and Investment Planning Council and Pargesa, a holding company with substantial holdings in a diversified industrial group based in Europe.

(a) Principal subsidiaries

The consolidated financial statements of the Company include the operations of the following subsidiaries and their subsidiaries:

Company	Incorporated in	Primary business operation	% Held
The Canada Life Assurance Company	Canada	Insurance and wealth management	100.00%
Great-West Life & Annuity Insurance Company	United States	Financial services	100.00%
Putnam Investments, LLC	United States	Asset management	100.00% ⁽¹⁾

⁽¹⁾ Lifeco holds 100% of the voting shares and 96.19% of the total outstanding shares.

(b) Transactions with related parties included in the consolidated financial statements

In the normal course of business, Canada Life and Putnam enter into various transactions with related companies which include providing insurance benefits and sub-advisory services to other companies within the Power Corporation group of companies. In all cases, transactions were at market terms and conditions.

During the year, Canada Life provided to and received from IGM and its subsidiaries, a member of the Power Corporation group of companies, certain administrative and information technology services. During the year, Canada Life and IGM executed a termination agreement covering the transition of shared information technology services from Canada Life to alternate providers over a number of years. Canada Life also provided life insurance, annuity and disability insurance products under a distribution agreement with IGM. In addition, Canada Life provided distribution services to IGM. All transactions were provided at market terms and conditions.

The Company owns 9,200,448 shares, held through Canada Life, representing a 3.85% ownership interest in IGM. The Company uses the equity method to account for its investment in IGM as it exercises significant influence. In 2021, the Company recognized \$33 for the equity method share of IGM net earnings and received dividends of \$21 from its investment in IGM (note 6).

During the year, the Company completed an agreement for a long-term strategic relationship with Sagard, a wholly-owned subsidiary of Power Corporation, which includes the sale of EverWest to Sagard, in exchange for a minority shareholding in Sagard's subsidiary, Sagard Holdings Management Inc. (note 3).

During the year ended December 31, 2020, the Company completed the sale of GLC Asset Management Group Ltd to Mackenzie. The Company recorded a gain on disposal of \$143 after-tax, net of restructuring and other one-time costs of \$16 after-tax (\$22 pre-tax) in 2020.

During the year ended December 31, 2020, GWL&A completed the acquisition of 100% of the equity of Personal Capital. Prior to the completion of the acquisition, IGM held a 24.8% interest in Personal Capital (approximately 21.7% after giving effect to dilution). The transaction resulted from an auction process conducted by Personal Capital and shareholders other than IGM.

25. *Related Party Transactions (cont'd)*

Segregated funds of the Company were invested in funds managed by IG Wealth Management and Mackenzie Investments. Mackenzie Investments also manages certain of the Company's portfolio investments. The Company also has interests in mutual funds, open-ended investment companies and unit trusts. Some of these funds are managed by related parties of the Company and the Company receives management fees related to these services. All transactions were provided at market terms and conditions (note 14).

The Company held debentures issued by IGM; the interest rates and maturity dates are as follows:

	2021	2020
3.44%, matures January 26, 2027	\$ 21	\$ 22
6.65%, matures December 13, 2027	16	17
7.45%, matures May 9, 2031	13	14
7.00%, matures December 31, 2032	14	14
4.56%, matures January 25, 2047	24	25
4.115%, matures December 9, 2047	11	12
4.174%, matures July 13, 2048	6	6
Total	\$ 105	\$ 110

During 2021, the Company purchased residential mortgages of \$12 from IGM (\$21 in 2020).

The Company holds investments in Portag3 Ventures Limited Partnership, Portag3 Ventures II Limited Partnership, Sagard Holdings Management Inc., Northleaf Capital Partners Ltd., and other entities which invest in the FinTech sector. These investments were made in partnership with Power Corporation, IGM and, in certain cases, outside investors.

The Company provides asset management, employee benefits and administrative services for employee benefit plans relating to pension and other post-employment benefits for employees of the Company and its subsidiaries. These transactions were provided at market terms and conditions.

There were no material loans or guarantees issued to or from related parties during 2021 or 2020. There were no significant outstanding loans or guarantees with related parties at December 31, 2021 or December 31, 2020. There were no provisions for uncollectible amounts with related parties at December 31, 2021 or December 31, 2020.

(c) Key management compensation

Key management personnel constitute those individuals that have the authority and responsibility for planning, directing and controlling the activities of Lifeco, directly or indirectly, including any Director. The individuals that comprise the key management personnel are the Board of Directors as well as certain key management and officers.

The following describes all compensation paid to, awarded to, or earned by each of the key management personnel for services rendered in all capacities to the Company and its subsidiaries:

	2021	2020
Salary	\$ 19	\$ 20
Share-based awards	17	17
Option-based awards	6	6
Annual non-equity incentive plan compensation	24	24
Pension value	(1)	1
Total	\$ 65	\$ 68

26. Income Taxes

(a) Components of the income tax expense

(i) Income tax recognized in Consolidated Statements of Earnings

Current income tax

	2021	2020
Total current income tax	\$ 148	\$ 271

Deferred income tax

	2021	2020
Origination and reversal of temporary differences	\$ 147	\$ (168)
Effect of changes in tax rates or imposition of new income taxes	21	7
Tax expense (recovery) arising from unrecognized tax losses, tax credits or temporary differences	(12)	(192)
Total deferred income tax	\$ 156	\$ (353)
Total income tax expense (recovery)	\$ 304	\$ (82)

(ii) Income tax recognized in other comprehensive income (note 24)

	2021	2020
Current income tax expense (recovery)	\$ (38)	\$ 28
Deferred income tax expense (recovery)	205	(39)
Total	\$ 167	\$ (11)

(iii) Income tax recognized in Consolidated Statements of Changes in Equity

	2021	2020
Current income tax recovery	\$ (1)	\$ —
Deferred income tax recovery	(6)	—
Total	\$ (7)	\$ —

26. Income Taxes (cont'd)

- (b) The effective income tax rate reported in the Consolidated Statements of Earnings varies from the combined Canadian federal and provincial income tax rate of 26.5% for the following items:

	2021		2020	
Earnings before income taxes	\$	3,867	\$	3,072
Combined basic Canadian federal and provincial tax rate		1,025 26.50 %		814 26.50 %
Increase (decrease) in the income tax rate resulting from:				
Non-taxable investment income ⁽¹⁾		(266) (6.88)		(332) (10.81)
Operations outside of Canada subject to a lower average foreign tax rate		(374) (9.66)		(375) (12.21)
Impact of rate changes on deferred income taxes		21 0.54		7 0.23
Recognition of deferred tax assets associated with prior year tax losses		(15) (0.39)		(197) (6.41)
Other		(87) (2.25)		1 0.03
Total income tax expense (recovery) and effective income tax rate	\$	304 7.86 %	\$	(82) (2.67)%
Total income tax expense (recovery) and effective income tax rate - common shareholders	\$	358 9.89 %	\$	(27) (0.88)%

⁽¹⁾ In 2020, a \$64 tax benefit from the non-taxable gains on the sale of the shares of GLC and IPSI reduced the effective income tax rate by 2.08 points.

- (c) Composition and changes in net deferred income tax assets are as follows:

	2021						
	Insurance and investment contract liabilities	Portfolio investments	Losses carried forward	Intangible assets	Tax credits	Other	Total
Balance, beginning of year	\$ (320)	\$ (766)	\$ 1,411	\$ (670)	\$ 285	\$ 389	\$ 329
Recognized in Statements of Earnings	(236)	116	(19)	(125)	39	69	(156)
Recognized in Statements of Comprehensive Income	—	8	—	—	—	(213)	(205)
Recognized in Statements of Changes in Equity	—	—	(2)	—	—	8	6
Acquired in business acquisitions	—	(1)	1	(17)	—	(4)	(21)
Foreign exchange rate changes and other	(19)	(1)	(3)	5	—	33	15
Balance, end of year	\$ (575)	\$ (644)	\$ 1,388	\$ (807)	\$ 324	\$ 282	\$ (32)

26. Income Taxes (cont'd)

	2020						
	Insurance and investment contract liabilities	Portfolio investments	Losses carried forward	Intangible assets	Tax credits	Other	Total
Balance, beginning of year	\$ (999)	\$ (536)	\$ 1,056	\$ (542)	\$ 311	\$ 287	\$ (423)
Recognized in Statements of Earnings	375	(237)	238	(63)	(25)	65	353
Recognized in Statements of Comprehensive Income	—	(12)	—	—	—	51	39
Recognized in Statements of Changes in Equity	—	—	—	—	—	—	—
Acquired in business acquisitions	300	—	107	(73)	—	7	341
Foreign exchange rate changes and other	4	19	10	8	(1)	(21)	19
Balance, end of year	<u>\$ (320)</u>	<u>\$ (766)</u>	<u>\$ 1,411</u>	<u>\$ (670)</u>	<u>\$ 285</u>	<u>\$ 389</u>	<u>\$ 329</u>

Recorded on Consolidated Balance Sheets:

	2021	2020
Deferred tax assets	\$ 1,057	\$ 975
Deferred tax liabilities	(1,089)	(646)
Total	<u>\$ (32)</u>	<u>\$ 329</u>

A deferred income tax asset is recognized for deductible temporary differences and unused losses and carryforwards only to the extent that realization of the related income tax benefit through future taxable profits is probable.

Recognition is based on the fact that it is probable that the entity will have taxable profits and/or tax planning opportunities available to allow the deferred income tax asset to be utilized. Changes in circumstances in future periods may adversely impact the assessment of the recoverability. The uncertainty of the recoverability is taken into account in establishing the deferred income tax assets. The Company's annual financial planning process provides a significant basis for the measurement of deferred income tax assets.

Management assesses the recoverability of the deferred income tax assets carrying values based on future years' taxable income projections and believes the carrying values of the deferred income tax assets as of December 31, 2021 are recoverable.

At December 31, 2021, the Company has recognized a deferred tax asset of \$1,388 (\$1,411 at December 31, 2020) on tax loss carryforwards totaling \$6,235, of which \$4,731 expire between 2022 and 2041 while \$1,504 have no expiry date. The Company will realize this benefit in future years through a reduction in current income taxes payable.

One U.S. subsidiary has had a history of losses. The subsidiary has a net deferred income tax asset balance of \$499 (U.S. \$393) as at December 31, 2021, comprised principally of net operating losses and future deductions related to goodwill. Management has concluded that it is probable that the subsidiary and other historically profitable subsidiaries with which it files or intends to file a consolidated U.S. income tax return will generate sufficient taxable income to utilize the unused U.S. losses and deductions.

The Company has not recognized a deferred tax asset of \$42 (\$37 in 2020) on tax loss carryforwards totaling \$212 (\$188 in 2020). Of this amount, \$104 expire between 2022 and 2041 while \$108 have no expiry date. In addition, the Company has not recognized a deferred tax asset of \$20 (\$21 in 2020) on

26. *Income Taxes (cont'd)*

other temporary differences of \$94 (\$99 in 2020) associated with investments in subsidiaries, branches, and associates.

A deferred income tax liability has not been recognized in respect of the temporary differences associated with investments in subsidiaries, branches and associates as the Company is able to control the timing of the reversal of the temporary differences, and it is probable that the temporary differences will not reverse in the foreseeable future.

27. **Operating and Administrative Expenses**

	2021	2020
Salaries and other employee benefits	\$ 4,191	\$ 3,716
General and administrative	1,938	1,554
Interest expense on leases	21	22
Amortization of fixed assets	119	129
Depreciation of right-of-use assets	68	71
Total	\$ 6,337	\$ 5,492

28. **Derivative Financial Instruments**

In the normal course of managing exposure to fluctuations in interest and foreign exchange rates, and to market risks, the Company is an end-user of various derivative financial instruments. It is the Company's policy to transact in derivatives only with the most creditworthy financial intermediaries. Note 8 discloses the credit quality of the Company's exposure to counterparties. Credit risk equivalent amounts are presented net of collateral received, including initial margin on exchange-traded derivatives, of \$318 as at December 31, 2021 (\$211 at December 31, 2020).

(a) The following summarizes the Company's derivative portfolio and related credit exposure using the following definitions of risk as prescribed by OSFI:

Maximum Credit Risk	The total replacement cost of all derivative contracts with positive values.
Future Credit Exposure	The potential future credit exposure is calculated based on a formula prescribed by OSFI. The factors prescribed by OSFI for this calculation are based on derivative type and duration.
Credit Risk Equivalent	The sum of maximum credit risk and the potential future credit exposure less any collateral held.
Risk Weighted Equivalent	Represents the credit risk equivalent, weighted according to the creditworthiness of the counterparty, as prescribed by OSFI.

28. Derivative Financial Instruments (cont'd)

		2021				
		Notional amount	Maximum credit risk	Future credit exposure	Credit risk equivalent	Risk weighted equivalent
Interest rate contracts						
Swaps	\$	5,075	\$ 207	\$ 59	\$ 263	\$ 5
Futures - long		1	—	—	—	—
Futures - short		147	—	—	—	—
Options purchased		11	—	—	—	—
		5,234	207	59	263	5
Foreign exchange contracts						
Cross-currency swaps		22,654	564	1,424	1,958	36
Forward contracts		4,455	50	65	100	1
		27,109	614	1,489	2,058	37
Other derivative contracts						
Equity contracts		2,146	142	134	261	1
Futures - long		15	—	—	—	—
Futures - short		578	1	—	—	—
Other forward contracts		1,488	3	129	133	1
		4,227	146	263	394	2
Total	\$	36,570	\$ 967	\$ 1,811	\$ 2,715	\$ 44
		2020				
		Notional amount	Maximum credit risk	Future credit exposure	Credit risk equivalent	Risk weighted equivalent
Interest rate contracts						
Swaps	\$	3,688	\$ 331	\$ 43	\$ 333	\$ 7
Futures - long		9	—	—	—	—
Futures - short		194	—	—	—	—
Options purchased		221	—	1	1	—
		4,112	331	44	334	7
Foreign exchange contracts						
Cross-currency swaps		15,186	388	1,004	1,237	25
Forward contracts		5,079	57	72	125	1
		20,265	445	1,076	1,362	26
Other derivative contracts						
Equity contracts		727	43	46	86	1
Futures - long		17	—	—	—	—
Futures - short		682	1	—	—	—
Other forward contracts		4,318	9	394	403	3
		5,744	53	440	489	4
Total	\$	30,121	\$ 829	\$ 1,560	\$ 2,185	\$ 37

28. Derivative Financial Instruments (cont'd)

(b) The following provides the notional amount, term to maturity and estimated fair value of the Company's derivative portfolio by category:

	2021				
	Notional Amount				Total estimated fair value
	1 year or less	Over 1 year to 5 years	Over 5 years	Total	
Derivatives not designated as accounting hedges					
Interest rate contracts					
Swaps	\$ 518	\$ 948	\$ 3,586	\$ 5,052	\$ 164
Futures - long	1	—	—	1	—
Futures - short	147	—	—	147	—
Options purchased	11	—	—	11	—
	677	948	3,586	5,211	164
Foreign exchange contracts					
Cross-currency swaps	2,574	4,298	13,462	20,334	(420)
Forward contracts	2,450	—	—	2,450	(4)
	5,024	4,298	13,462	22,784	(424)
Other derivative contracts					
Equity contracts	1,952	—	—	1,952	52
Futures - long	15	—	—	15	—
Futures - short	578	—	—	578	(2)
Other forward contracts	1,488	—	—	1,488	3
	4,033	—	—	4,033	53
Fair value hedges					
Foreign exchange forward contracts	78	—	—	78	(1)
Cash flow hedges					
Interest rate contracts					
Swaps	—	—	23	23	8
Other derivative contracts					
Equity contracts	43	58	93	194	89
	43	58	116	217	97
Net investment hedges					
Cross-currency swaps	—	—	2,320	2,320	—
Foreign exchange forward contracts	1,409	518	—	1,927	48
	1,409	518	2,320	4,247	48
Total	\$ 11,264	\$ 5,822	\$ 19,484	\$ 36,570	\$ (63)

28. Derivative Financial Instruments (cont'd)

	2020				
	Notional Amount				Total estimated fair value
	1 year or less	Over 1 year to 5 years	Over 5 years	Total	
Derivatives not designated as accounting hedges					
Interest rate contracts					
Swaps	\$ 325	\$ 770	\$ 2,565	\$ 3,660	\$ 281
Futures - long	6	3	—	9	—
Futures - short	190	4	—	194	—
Options purchased	41	166	14	221	—
	562	943	2,579	4,084	281
Foreign exchange contracts					
Cross-currency swaps	896	3,068	11,222	15,186	(783)
Forward contracts	3,689	—	—	3,689	32
	4,585	3,068	11,222	18,875	(751)
Other derivative contracts					
Equity contracts	626	—	—	626	18
Futures - long	17	—	—	17	—
Futures - short	682	—	—	682	(4)
Other forward contracts	4,318	—	—	4,318	8
	5,643	—	—	5,643	22
Fair value hedges					
Foreign exchange forward contracts	74	—	—	74	3
Cash flow hedges					
Interest rate contracts					
Swaps	—	—	28	28	14
Other derivative contracts					
Equity contracts	—	101	—	101	24
	—	101	28	129	38
Net investment hedges					
Foreign exchange forward contracts	786	530	—	1,316	15
Total	\$ 11,650	\$ 4,642	\$ 13,829	\$ 30,121	\$ (392)

Futures contracts included in the above are exchange traded contracts; all other contracts are over-the-counter.

28. *Derivative Financial Instruments (cont'd)*

(c) Interest Rate Contracts

Interest rate swaps, futures and options are used as part of a portfolio of assets to manage interest rate risk associated with investment activities and insurance and investment contract liabilities. Interest-rate swap agreements require the periodic exchange of payments without the exchange of the notional principal amount on which payments are based. Call options grant the Company the right to enter into a swap with predetermined fixed-rate payments over a predetermined time period on the exercise date. Call options are used to manage the variability in future interest payments due to a change in credited interest rates and the related potential change in cash flows due to surrenders. Call options are also used to hedge minimum rate guarantees.

Foreign Exchange Contracts

Cross-currency swaps are used in combination with other investments to manage foreign currency risk associated with investment activities, and insurance and investment contract liabilities. Cross-currency swaps are also used to hedge the Company's net investment in foreign operations. Under these swaps principal amounts and fixed or floating interest payments may be exchanged in different currencies. The Company also enters into certain foreign exchange forward contracts to hedge certain product liabilities.

Other Derivative Contracts

Equity index swaps, futures and options are used to hedge certain product liabilities. Equity index swaps are also used as substitutes for cash instruments and are used to periodically hedge the market risk associated with certain fee income. Equity put options are used to manage potential credit risk impact of significant declines in certain equity markets.

Equity total return swaps are used to manage exposure to fluctuations in the total return of common shares related to deferred compensation arrangements. Total return swaps require the exchange of net contractual payments periodically or at maturity without the exchange of the notional principal amounts on which the payments are based. These instruments are designated as cash flow hedges.

The ineffective portion of the cash flow hedges during 2021, which includes interest rate contracts, foreign exchange contracts, and equity total return swap contracts, and the anticipated net gains (losses) expected to be reclassified out of accumulated other comprehensive income within the next twelve months is nil. The maximum time frame for which variable cash flows are hedged is 23 years.

29. Legal Provisions and Contingent Liabilities

The Company and its subsidiaries are from time-to-time subject to legal actions, including arbitrations and class actions. Provisions are established if, in management's judgment, it is probable a payment will be required and the amount of the payment can be reliably estimated. It is inherently difficult to predict the outcome of any of these proceedings with certainty, and it is possible that an adverse resolution could have a material adverse effect on the consolidated financial position of the Company. However, based on information presently known, it is not expected that any of the existing legal actions, either individually or in the aggregate, will have a material adverse effect on the consolidated financial position of the Company. Actual results could differ from management's best estimates.

30. Commitments

(a) Letters of Credit

Letters of credit are written commitments provided by a bank. The total amount of letter of credit facilities is U.S. \$1,904 of which U.S. \$1,599 were issued as of December 31, 2021.

The Capital and Risk Solutions segment periodically uses letters of credit as collateral under certain reinsurance contracts for on balance sheet policy liabilities.

(b) Investment Commitments

Commitments of investment transactions made in the normal course of operations in accordance with policies and guidelines that are to be disbursed upon fulfillment of certain contract conditions were \$4,027 as at December 31, 2021, with \$3,831 maturing within one year, \$188 maturing within two years, \$2 maturing within three years and \$6 maturing in over 5 years.

(c) Pledged Assets

In addition to the assets pledged by the Company disclosed elsewhere in the consolidated financial statements:

- (i) The amount of assets included in the Company's balance sheet which have a security interest by way of pledging is \$1,263 (\$1,421 at December 31, 2020) in respect of reinsurance agreements.

In addition, under certain reinsurance contracts, bonds presented in portfolio investments are held in trust and escrow accounts. Assets are placed in these accounts pursuant to the requirements of certain legal and contractual obligations to support contract liabilities assumed.

- (ii) The Company has pledged, in the normal course of business, \$63 (\$75 at December 31, 2020) of assets of the Company for the purpose of providing collateral for the counterparty.

31. Segmented Information

The operating segments of the Company are Canada, United States, Europe, Capital and Risk Solutions and Lifeco Corporate. These segments reflect the Company's management structure and internal financial reporting. Each of these segments operates in the financial services industry and the revenues from these segments are derived principally from interests in life insurance, health insurance, retirement and investment services, asset management and reinsurance businesses.

Transactions between operating segments occur at market terms and conditions and have been eliminated upon consolidation.

The Company has a capital allocation model to measure the performance of the operating segments. The impact of the capital allocation model is included in the segmented information presented below.

31. Segmented Information (cont'd)

(a) Consolidated Net Earnings

	2021					
	Canada	United States	Europe	Capital and Risk Solutions	Lifeco Corporate	Total
Income						
Total net premiums	\$ 13,900	\$ 4,518	\$ 4,862	\$ 29,533	\$ —	\$ 52,813
Net investment income						
Regular net investment income (loss)	2,878	1,937	1,325	262	(9)	6,393
Changes in fair value through profit or loss	522	(900)	(1,375)	(334)	4	(2,083)
Total net investment income (loss)	3,400	1,037	(50)	(72)	(5)	4,310
Fee and other income	1,991	3,880	1,415	8	—	7,294
	19,291	9,435	6,227	29,469	(5)	64,417
Benefits and expenses						
Paid or credited to policyholders	13,577	4,797	3,200	28,721	—	50,295
Other ⁽¹⁾	3,792	3,654	1,736	212	107	9,501
Financing charges	134	159	24	9	2	328
Amortization of finite life intangible assets	110	171	55	—	—	336
Restructuring and integration expenses	—	90	—	—	—	90
Earnings (loss) before income taxes	1,678	564	1,212	527	(114)	3,867
Income taxes	182	73	140	(30)	(61)	304
Net earnings (loss) before non-controlling interests	1,496	491	1,072	557	(53)	3,563
Non-controlling interests	304	(7)	4	—	—	301
Net earnings (loss)	1,192	498	1,068	557	(53)	3,262
Preferred share dividends	114	—	18	—	2	134
Net earnings (loss) before capital allocation	1,078	498	1,050	557	(55)	3,128
Impact of capital allocation	109	1	(74)	(25)	(11)	—
Net earnings (loss) - common shareholders	\$ 1,187	\$ 499	\$ 976	\$ 532	\$ (66)	\$ 3,128

⁽¹⁾ Includes commissions, operating and administrative expenses, and premium taxes.

31. Segmented Information (cont'd)

	2020					
	Canada	United States	Europe	Capital and Risk Solutions	Lifeco Corporate	Total
Income						
Total net premiums	\$ 13,188	\$ 6,773	\$ 3,651	\$ 19,407	\$ —	\$ 43,019
Net investment income						
Regular net investment income	3,050	1,278	1,313	320	2	5,963
Changes in fair value through profit or loss	2,633	938	1,669	459	—	5,699
Total net investment income	5,683	2,216	2,982	779	2	11,662
Fee and other income	1,756	2,769	1,366	11	—	5,902
	<u>20,627</u>	<u>11,758</u>	<u>7,999</u>	<u>20,197</u>	<u>2</u>	<u>60,583</u>
Benefits and expenses						
Paid or credited to policyholders	15,572	8,413	5,184	19,318	—	48,487
Other ⁽¹⁾	3,545	2,870	1,686	239	28	8,368
Financing charges	127	110	25	12	10	284
Amortization of finite life intangible assets	104	83	51	—	—	238
Restructuring and integration expenses	92	42	—	—	—	134
Earnings (loss) before income taxes	1,187	240	1,053	628	(36)	3,072
Income taxes	54	(158)	33	(1)	(10)	(82)
Net earnings (loss) before non-controlling interests	1,133	398	1,020	629	(26)	3,154
Non-controlling interests	76	7	1	(6)	—	78
Net earnings (loss)	1,057	391	1,019	635	(26)	3,076
Preferred share dividends	114	—	19	—	—	133
Net earnings (loss) before capital allocation	943	391	1,000	635	(26)	2,943
Impact of capital allocation	127	(11)	(87)	(21)	(8)	—
Net earnings (loss) - common shareholders	<u>\$ 1,070</u>	<u>\$ 380</u>	<u>\$ 913</u>	<u>\$ 614</u>	<u>\$ (34)</u>	<u>\$ 2,943</u>

⁽¹⁾ Includes commissions, operating and administrative expenses, and premium taxes.

The revenue by source currency for Capital and Risk Solutions:

	2021	2020
Revenue		
United States	\$ 21,256	\$ 16,118
United Kingdom	1,369	1,807
Japan	4,297	—
Other	2,547	2,272
Total revenue	<u>\$ 29,469</u>	<u>\$ 20,197</u>

31. Segmented Information (cont'd)

(b) Consolidated Total Assets and Liabilities

		2021				
		Canada	United States	Europe	Capital and Risk Solutions	Total
Assets						
Invested assets	\$	92,400	\$ 55,376	\$ 48,669	\$ 9,359	\$ 205,804
Goodwill and intangible assets		5,722	5,826	3,047	—	14,595
Other assets		4,323	30,090	10,220	8,037	52,670
Investments on account of segregated fund policyholders		101,537	116,919	138,963	—	357,419
Total	\$	203,982	\$ 208,211	\$ 200,899	\$ 17,396	\$ 630,488
		2021				
		Canada	United States	Europe	Capital and Risk Solutions	Total
Liabilities						
Insurance and investment contract liabilities	\$	84,829	\$ 74,632	\$ 47,356	\$ 14,016	\$ 220,833
Other liabilities		7,752	8,800	4,309	892	21,753
Investment and insurance contracts on account of segregated fund policyholders		101,537	116,919	138,963	—	357,419
Total	\$	194,118	\$ 200,351	\$ 190,628	\$ 14,908	\$ 600,005
		2020				
		Canada	United States	Europe	Capital and Risk Solutions	Total
Assets						
Invested assets	\$	87,732	\$ 54,522	\$ 50,793	\$ 5,951	\$ 198,998
Goodwill and intangible assets		5,625	5,729	3,037	—	14,391
Other assets		3,661	30,347	10,151	8,910	53,069
Investments on account of segregated fund policyholders		90,680	117,982	125,370	—	334,032
Total	\$	187,698	\$ 208,580	\$ 189,351	\$ 14,861	\$ 600,490
		2020				
		Canada	United States	Europe	Capital and Risk Solutions	Total
Liabilities						
Insurance and investment contract liabilities	\$	81,556	\$ 76,793	\$ 48,243	\$ 11,455	\$ 218,047
Other liabilities		7,731	8,004	4,767	894	21,396
Investment and insurance contracts on account of segregated fund policyholders		90,680	117,982	125,370	—	334,032
Total	\$	179,967	\$ 202,779	\$ 178,380	\$ 12,349	\$ 573,475

31. *Segmented Information (cont'd)*

The assets by source currency for Capital and Risk Solutions:

	2021	2020
Assets		
United Kingdom	\$ 6,507	\$ 7,572
United States	5,902	6,667
Japan	4,102	—
Other	885	622
Total assets	\$ 17,396	\$ 14,861

32. **Comparative Figures**

The Company reclassified and adjusted certain comparative figures for disclosure items to conform to the current year's presentation. These reclassifications and adjustments had no impact on the total equity or net earnings of the Company.

Independent Auditor's Report

To the Shareholders of Great-West Lifeco Inc.

Opinion

We have audited the consolidated financial statements of Great-West Lifeco Inc. (the "Company"), which comprise the consolidated balance sheets as at December 31, 2021 and 2020, and the consolidated statements of earnings, comprehensive income, changes in equity and cash flows for the years then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies (collectively referred to as the "financial statements").

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Company as at December 31, 2021 and 2020, and its financial performance and its cash flows for the years then ended in accordance with International Financial Reporting Standards ("IFRS").

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards ("Canadian GAAS"). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Company in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements for the year ended December 31, 2021. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

Insurance Contract Liabilities – Refer to Notes 2 and 13 to the financial statements

Key Audit Matter Description

The Company has insurance contract liabilities representing a significant portion of its total liabilities. Insurance contract liabilities are determined in accordance with generally accepted actuarial practices established by the Canadian Institute of Actuaries using the Canadian Asset Liability Method (CALM). This method requires the use of complex valuation models incorporating projections of cash inflows and outflows using the best estimate of future experience together with a margin for adverse deviation.

While there are many assumptions which management makes, the assumptions with the greatest estimation uncertainty are those related to mortality, including the impact, if any, of the COVID-19 pandemic, and policyholder behaviour. These assumptions required significant auditor attention in specific circumstances where (i) there is limited Company and industry experience data, and (ii) the historical experience may not be a good indicator of the future. Auditing of certain valuation models, mortality and policyholder behaviour assumptions required a high degree of auditor judgment and an increased extent of audit effort, including the need to involve actuarial specialists.

How the Key Audit Matter was Addressed in the Audit

Our audit procedures related to certain valuation models, mortality and policyholder behaviour assumptions included the following, among others:

- With the assistance of actuarial specialists, tested the appropriateness of certain valuation models used in the estimation process by:
 - Calculating an independent estimate of the insurance contract liability for a sample of insurance policies and comparing the results to the Company's estimate.
 - Testing the accuracy of certain valuation models for changes in key assumptions.
- With the assistance of actuarial specialists, tested the reasonableness of mortality and policyholder behaviour assumptions, by:
 - Evaluating whether management's assumptions were determined in accordance with actuarial principles and practices under the Canadian actuarial standards of practice.
 - Testing experience studies and other inputs used in the determination of the mortality and policyholder behaviour assumptions.
 - Analyzing management's interpretation and judgment of its experience study results and emerging claims experience, evaluating triggers and drivers for revisions of assumptions, assessing reasonable possible alternative assumptions, and considering industry and other external sources of benchmarking where applicable.

Income Taxes – Refer to Notes 2 and 26 to the financial statements

Key Audit Matter Description

The Company recognizes deferred income taxes for the tax expected to be payable or recoverable on differences arising between the financial statement and tax basis of assets and liabilities, and is recorded at enacted or substantively enacted tax rates in effect for the years in which the differences are expected to be realized. The Company applies judgment in assessing the recoverability of the deferred income tax asset carrying values based on future years' taxable income projections. Certain of the Company's subsidiaries have had a history of losses and have a deferred income tax asset comprised principally of net operating losses. The Company has concluded that through the use of certain tax planning opportunities, it is probable that sufficient taxable income will be generated to utilize certain of the unused losses.

The determination of the recoverability of the Company's deferred tax assets in the Company's subsidiaries required management to make judgements related to the assessment of management's planned implementation of tax strategies. In addition, management makes significant estimates and assumptions in projecting future taxable income, specifically the revenue growth rates and projected expense margins and in the determination of whether the deferred tax asset will be realized. Auditing these judgements required a high degree of auditor judgment as the estimations made by management contain significant measurement uncertainty. This resulted in an increased extent of audit effort, including the need to involve income tax and other specialists.

How the Key Audit Matter was Addressed in the Audit

Our audit procedures related to the tax strategies, revenue growth rates and projected expense margins, and the determination of whether the deferred tax assets in the Company's subsidiaries will be realized included the following, among others:

- With the assistance of income tax specialists, analyzed the reasonableness of management's projected future taxable income available to determine whether the models properly factored in the impact of the tax planning strategies.
- Tested the reasonableness of the revenue growth rates and projected expense margins used to project future taxable income that was available to realize the deferred tax asset by:
 - Assessing the key factors influencing management's revenue growth rates and projected expense margins used in the projections through both market and internally entity specific driven evidence.
 - Performing a retrospective analysis of projected future taxable income against actual results from prior years.
- With the assistance of income tax and other specialists, evaluated the proposed tax planning strategies considered in the recoverability analysis to assess whether the deferred tax asset will be realized.

Massachusetts Mutual Life Insurance Acquisition— Refer to Note 3(a) to the financial statements

Key Audit Matter Description

On December 31, 2020, the Company purchased the retirement services business of Massachusetts Mutual Life Insurance Company ("MassMutual") via indemnity reinsurance and recognized the assets acquired and the liabilities assumed at their acquisition-date fair values, including customer contract intangible assets ("intangible assets") and certain insurance contract liabilities ("insurance contract liabilities"). During the measurement period in 2021, management finalized the purchase price allocation of the MassMutual acquisition.

Management used discounted cash flow models to determine the fair value of the intangible assets. While there are several assumptions and estimates required, those with the highest degree of subjectivity are the forecasted revenues and earnings and discount rates.

There are many components embedded in the determination of the fair value of the insurance contract liabilities that required management to make judgments and assumptions relating to (1) the appropriate accounting treatment and (2) appropriateness of valuation models that incorporate projections of cash inflows and outflows using the best estimate of future experience together with the discount rates. The judgments and assumptions with the greatest subjectivity are the determination of the appropriate accounting treatment, appropriateness of the valuation models, policyholder behaviour and discount rates assumptions.

Auditing of these judgments, assumptions and estimates required a high degree of auditor judgment and an increased extent of audit effort, including the need to involve fair value, actuarial and financial instrument specialists.

How the Key Audit Matter Was Addressed in the Audit

Our audit procedures related to these judgments, assumptions and estimates used to determine the fair value of intangible assets and insurance contract liabilities included the following, among others:

Intangible assets:

- Evaluated the reasonableness of forecasted revenue and earnings by comparing the forecasts to:
 - Historical results of the acquired entity.
 - Actual results of the acquired entity post acquisition.
 - Underlying analyses detailing business strategies and growth plans including estimated revenue and cost per participant.
 - Third-party reports and comparable company performance.
- With the assistance of fair value specialists, evaluated the reasonableness of the discount rates used by testing the source information underlying the determination of the discount rates and developing a range of independent estimates and comparing those to the discount rates selected by management.

Insurance contract liabilities:

- With the assistance of financial instrument specialists evaluated management's assessment related to the accounting treatment of the insurance contract liabilities by:
 - Assessing the executed contracts to understand the nature of the products and to determine whether all key facts and circumstances were incorporated into management's assessment.
 - Analyzing relevant accounting standards, including various aspects of IFRS, conceptual framework and guidance.
- With the assistance of actuarial specialists, tested the appropriateness of the valuation models used in the estimation process by:
 - Testing the valuation models for the incorporation of the key assumptions.
 - Recalculating management's estimate of the insurance contract liability for a sample of insurance policies and comparing the results to the Company's estimate.

- With the assistance of actuarial specialists, tested the reasonableness of policyholder behaviour assumptions, by:
 - Evaluating whether management’s assumptions were determined in accordance with actuarial principles and practices.
 - Testing experience studies and other inputs used in the determination of the policyholder behaviour assumptions.
 - Analyzing management’s interpretation and judgments based on the relative inputs, considering reasonable possible alternative assumptions, and considering industry and other external sources of benchmarking where applicable.
- With the assistance of fair value specialists, evaluated the reasonableness of the discount rates used by testing the source information and methodology underlying the determination of the discount rates and compare it to the discount rates selected by management.

Other Information

Management is responsible for the other information. The other information comprises:

- Management’s Discussion and Analysis
- The information, other than the financial statements and our auditor’s report thereon, in the Annual Report.

Our opinion on the financial statements does not cover the other information and we do not and will not express any form of assurance conclusion thereon. In connection with our audit of the financial statements, our responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated.

We obtained Management’s Discussion and Analysis prior to the date of this auditor’s report. If, based on the work we have performed on this other information, we conclude that there is a material misstatement of this other information, we are required to report that fact in this auditor’s report. We have nothing to report in this regard.

The Annual Report is expected to be made available to us after the date of the auditor’s report. If, based on the work we will perform on this other information, we conclude that there is a material misstatement of this other information, we are required to report that fact to those charged with governance.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with IFRS, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company’s ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Company’s financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian GAAS will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Canadian GAAS, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Company to express an opinion on the financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in this independent auditor's report is Paul Stauch.

/s/ Deloitte LLP
Chartered Professional Accountants
Winnipeg, Manitoba
February 9, 2022